JBS&G 69329 | 171267 (Rev 0)

L007 State Significant Development Application, Environmental Reports (Rev 0)

8 October 2025

Sristi Pokharel
Mirvac Projects Pty Ltd
Via email: Sristi.pokharel@mirvac.com

State Significant Development Application SSD-82328958, Environmental Reports

Dear Sristi ,

1. Introduction

JBS&G Australia Pty Ltd (JBS&G) has been engaged by Mirvac Projects Pty Ltd (Mirvac, the Client) to prepare the following reports:

- Detailed Site Investigation (DSI, JBS&G 2025a)[1];
- Fill Retention Risk Assessment (FRRA), JBS&G 2025b)[2];
- Remediation Action Plan (RAP, JBS&G 2025c)[3];
- Air Quality Assessment (AQA, JBS&G 2025d)[4]; and
- Waste Management Plan (WMP, JBS&G 2025e)5.

Interim Audit Advice (IAA) has been obtained from a NSW EPA Accredited Site Auditor, Melissa Porter of Senversa Pty Ltd, endorsing the DSI (Senversa 2025a[6]), FFRA (Senversa 2025b[7]) and RAP (Senversa 2025c[8]).

These reports supports an Early Works State Significant Development Application (SSDA) (SSD-82328958) being lodged with the Department of Planning, Housing and Infrastructure (DPHI) for site establishment works, tree removal, bulk excavation, remediation, basement retention and ancillary works at 6 Geddes Avenue and 411 Botany Road, Zetland (the site) for the development of the site into a mixed-use residential

[1] *Detailed Site Investigation Stage 4 and 5 Green Square Town Centre 411 Botany Road and 6 Geddes Avenue, Zetland NSW.* Prepared for Mirvac Projects Pty Ltd by JBS&G Australia Pty Ltd ref.69329/167877 Rev 0 dated 8 September 2025 (JBS&G 2025a).
[2] *Green Square Town Centre – Stage 4 and 5 – Fill Retention Risk Assessment*. JBS&G Australia Pty Ltd ref.69329/168638 Rev 0 dated 9 September 2025 (JB&SG 2025b).
[3] *Remedial Action Plan Stage 4 and 5 Green Square Town Centre 411 Botany Road and 6 Geddes Avenue, Zetland NSW.* Prepared for Mirvac Projects Pty Ltd by JBS&G Australia Pty Ltd ref.69329/170577 Rev 1 dated 24 September 2025 (JBS&G 2025c).
[4] *Air Quality Assessment: Stage 4 and 5 Green Square Town Centre 411 Botany Road and 6 Geddes Avenue, Zetland NSW.* Prepared for Mirvac Projects Pty Ltd by JBS&G Australia Pty Ltd ref.69329/170030 Rev 3 dated 8 october 2025 (JBS&G 2025d).
[5] Early Works Waste Management Plan, Stages 4 & 5 Green Square Town Centre – 6 Geddes Avenue and 411 *Botany Road , Zetland NSW.* Prepared for Mirvac Projects Pty Ltd by JBS&G Australia Pty Ltd ref.6932901/170976 Rev 0 dated 24 September 2025 (JBS&G 2025e).
[6] *Interim Audit Advice #11: Phase 1 (Stages 4 and 5) Detailed Site Investigation Green Square, Zetland NSW*. Senversa Pty Ltd dated 11 September 2025 (Senversa 2025a)
[7] *Interim Audit Advice #14: Phase 1 (Stages 4 and 5) Fill Retention Risk Assessment Green Square, Zetland NSW*. Senversa Pty Ltd dated 22 September 2025 (Senversa 2025b)
[8] *Interim Audit Advice #15: Phase 1 (Stages 4 and 5) Green Square, Zetland NSW*. Senversa Pty Ltd dated 26 September 2025 (Senversa 2025c)

precinct. The site is also known collectively as Sites 8A to 8D and 19A to 19B of the Green Square Town Centre (GSTC). The proponent for the SSDA is Mirvac Green Square Pty Limited.

The proposal aims to:

- Facilitate the early works required for the Ministerial declared Housing Delivery Authority (HDA) site under SSD-84322496 relating to the sites south of the Green Square Plaza, which will establish a vibrant mixed-use precinct, expected to deliver 1,000 to 1,200 dwellings across the entire Mirvac Green Square HDA proposal.
- Enable site establishment, erosion and sediment control, tree removal, bulk excavation, remediation and basement retention to ensure the site is suitable for the future proposed mixed-use residential development.
- Ensure the expedient delivery of the HDA application at the site (SSD-84322496) as per the requirements of the Minister for Planning and Public Spaces under the HDA approval pathway.

2. Background - Housing Delivery Authority

On 19 December 2024, the Housing Development Authority (HDA) was established by DPHI to accelerate the delivery of housing across NSW, under the E*nvironmental Planning and Assessment (Housing Delivery Authority) Order 2024*. This has provided a new State Significant Development pathway in which the proposed redevelopment can be undertaken.

The site was declared State Significant Development (SSD) pursuant to *State Significant Declaration Order 2025 (No 2)* issued on 26 February 2025. The order specifies development in EOI application 232525 dated 17 January 2025, including development for the purposes of mixed-use development comprising commercial premises and residential accommodation with the provision for affordable housing and build to rent at 960A Bourke Street, 6 Geddes Ave and 411 Botany Road, Zetland, as identified in Schedule 18, is declared to be SSD.

The HDA SSD pathway has been established to accelerate delivery of housing and requires that the subject SSD is lodged within 9 months from receipt of the Secretary's Environmental Assessment Requirements (SEARs). Current SEARs for the project were issued for Early Works on 15 April 2025 (SSD-82328958), Sites 7, 17 and 18 on 15 May 2025 (SSD-83899206) and for Sites 8 and 19 on 15 May 2025 (SSD- 84322496).

The key features of the Mirvac Green Square HDA proposal are to include:

- Detailed development consent for the purposes of a mixed-use development, with significant residential components comprising build-to-sell and build-to-rent dwelling stock and ground floor non-residential uses.
- Delivery of between 1,000 to 1,200 dwellings across 9 buildings in low-rise and high rise tower formats.
- Delivery of Affordable Housing dwellings.
- Delivery of the components in a two-stage detailed SSDA process.
- In conjunction with the SSDA, a State-assessed rezoning process is intended to include the following:
- Revisions to mapped building heights with selected increases.
- Increase the mapped floorspace ratio (FSR) across the combined site.
- Removal of Clause 4.4A relating to specific gross floor area (GFA) land use limitations in mapped areas.

This SSDA forms part of the early works required to enable the future main works application at the site in relation to Sites 8A to 8D and 19A to 19B of the GSTC.

3. Site Description

The site is located at 6 Geddes Avenue and 411 Botany Road, Zetland and is located within the GSTC. It is situated within the Sydney Local Government Area (LGA) and is located approximately 3.5km south of the Sydney CBD and within immediate proximity of the Green Square Railway Station. The site forms the southern component of the Mirvac HDA proposal, consisting of two lots which are legally described as Lot 11 DP 1225135 and Lot 12 DP 1225135 (respectively). An aerial photo of the site is shown at **Figure 1** below.



Figure 1 Site Aerial Map

Source: Nearmaps, Ethos Urban

4. Overview of the Proposed Development

This SSDA seeks approval for the early works required at 6 Geddes Avenue and 411 Botany Road, comprising:

- Site establishment works;
- Erosion and sediment control;
- Tree removal;
- Bulk excavation to establish future basement levels;
- Basement retention and piled shoring works;
- Infrastructure services coordination and augmentation; and

- Ancillary works.

This SSDA also seeks the torrens title subdivision of the site.

The proposed works form part of the Early Works required to enable to the HDA 'Main Works' development of 6 Geddes Ave and 411 Botany Road, Zetland.

5. Secretary's Environmental Assessment Requirements

In accordance with section 4.39 of the *Environmental Planning & Assessment Act 1979* (EP&A Act), Secretary's Environmental Assessment Requirements (SEARs) (SSD-82328958) (Early Works, Civil, Excavation and Remediation Works SSDA) have been issued. This report has been prepared to respond to the issued SEARs, as set out in the table below.

Table 1 SSD-82328958 SEARs

SEAR	Response / Location in Report
Condition 13. Contamination and Remediation	Detailed Site Investigation (JBS&G 2025a) Fill Retention Risk Assessment (JBS&G 2025b) Remediation Action Plan (JBS&G 2025c)
Condition 17. Waste Management	Waste Management Plan (JBS&G 2025e)

6. Closing

Should you require clarification, please contact the undersigned on 0447 490 001 or by email Cdagger@jbsg.com.au.

Yours sincerely:



Chris Dagger
Environmental Consultant
JBS&G Australia Pty Ltd

Reviewed/Approved by:



Nathan Cussen
Principal
JBS&G Australia Pty Ltd

Remedial Action Plan
Stages 4 & 5 Green Square Town Centre
411 Botany Road & 6 Geddes Avenue, Zetland

Mirvac Projects Pty Ltd

Report

69329 | 170577 (Rev 1)

24 September 2025

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

We pay our respect to Elders past, present and emerging and in the spirit of reconciliation we commit to working together for our shared future where every person is respected, valued and has strong sense of belonging.

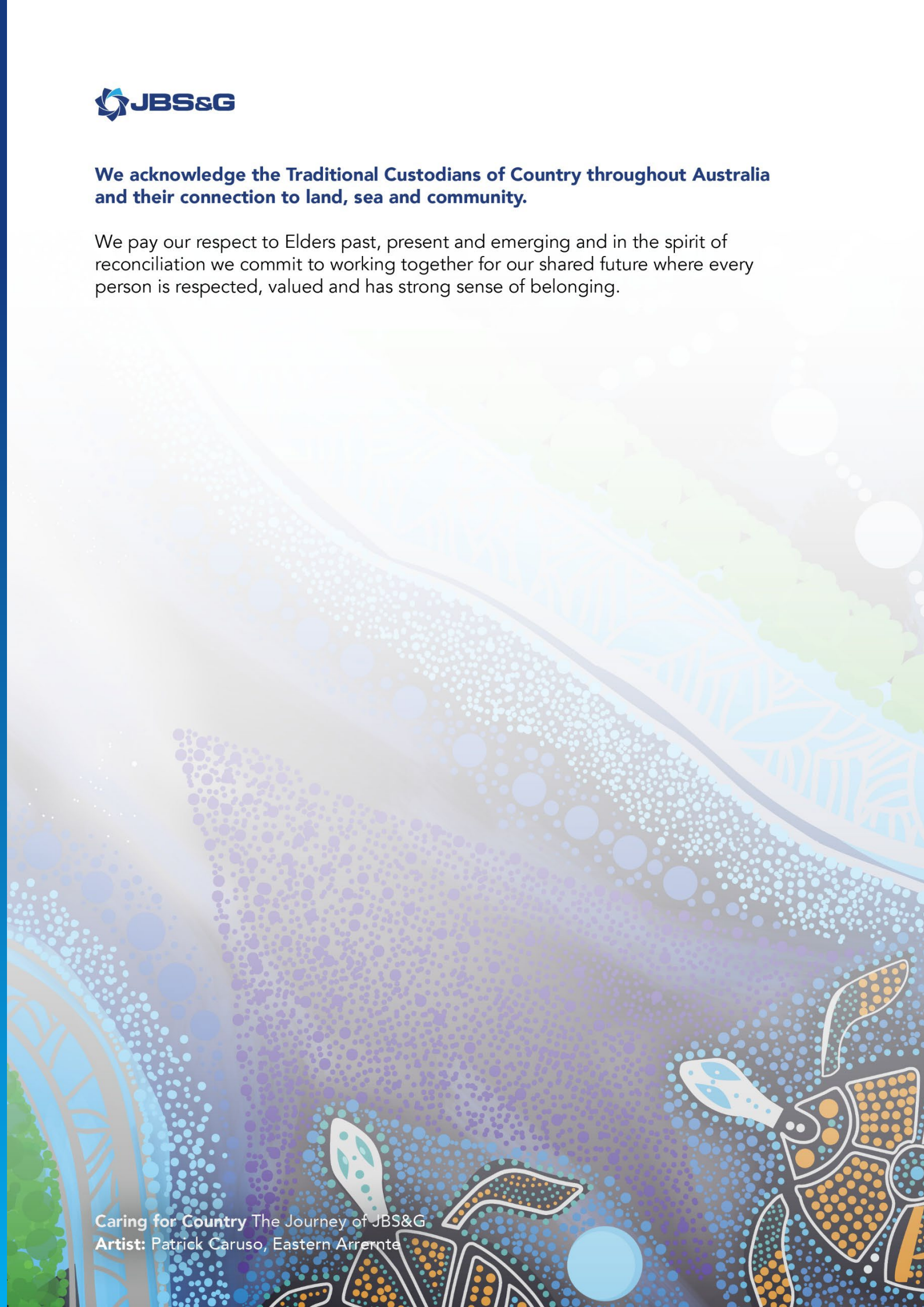


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Abbreviations

Term	Definition
ACM	Asbestos Containing Material
AHD	Australian Height Datum
AMP	Asbestos Management Plan
ARCP	Asbestos Removal Control Plan
ASS/PASS	Acid Sulfate Soils / Potential Acid Sulfate Soils
B(a)P	Benzo(a)Pyrene
Bgl	Below Ground Surface
BSBs	Botany Sand Beds
BTEX	Benzene, Toluene, Ethylene, Xylene
CC	Construction Certificate
COPC	Contaminants of Potential Concern
CSM	Conceptual Site Model
DA	Development Application
DCCEEW	NSW Department of Climate Change, Energy, the Environment and Water
DCP	Development Control Plan
DGVs	Default Guideline Values
DQI	Data Quality Indicators
DQO	Data Quality Objectives
ENM	Excavated Natural Material
EPA	Environmental Protection Authority
EPL	Environmental Protection License
ESD	Ecological Sustainable Development
FA/AF	Friable Asbestos / Asbestos Fines
FRRA	Fill Retention Risk Assessment
GSDCP	Green Square Town Centre Development Control Plan
GSTC	Green Square Town Centre
Ha	Hectare
IAA	Interim Audit Advice
JBS&G	JSB&G Australia Pty Ltd
LAA	Licensed Asbestos Assessor
LGA	Local Government Authority
LOR	Limit of Reporting
LTEMP	Long-Term Environmental Management Plan
MCF	Materials Characterisation Form
MTS	Materials Tracking Form
NATA	National Association of Testing Authorities
OC	Occupational Certificate
OCPs	Organochlorine Phosphates

PAHs	Polycyclic Aromatic Hydrocarbons
PCBs	Polychlorinated biphenyls
PID	Photo-ionisation Device
POEO	Protection of the Environment Operations
PPE	Personal Protective Equipment
QA/QC	Quality Assurance / Quality Control
RAP	Remedial Action Plan
RL	Relative Level
RPD	Relative Percentage Difference
RRE	Resource Recover Exemption
RRO	Resource Recovery Order
SAS	Site Audit Statement
SEPP R&H	State Environmental Planning Policies, Resilience and Hazards
SSDA	State Significant Development Application
SWMS	Safe Work Method Statement
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbon
TRH	Total Recoverable Hydrocarbon
USTs	Underground Storage Tank
UV	Ultra-Violet Light
VENM	Virgin Excavated Natural Material
VOCs	Volatile Organic Compounds
VPA	Voluntary Planning Agreement

Executive Summary

JBS&G Australia Pty Ltd (JBS&G) was engaged by Mirvac Projects Pty Ltd (Mirvac, the Client) to prepare a Remedial Action Plan (RAP) detailing the works required to remediate impacted fill material within the Stage 4 and Stage 5 (the site) portions of the Green Square Town Centre (GSTC) project to make these portions of the GSTC suitable for the proposed mixed (residential with minimal access soil, retail/commercial and student accommodation) land uses.

The site is located at 6 Geddes Avenue and 411 Botany Road, Zetland, NSW. It is situated within the Sydney Local Government Area (LGA) and is located approximately 3.5km south of the Sydney CBD and within immediate proximity of the Green Square Railway Station. The site forms the southern component of the Mirvac HDA proposal, consisting of two lots which are legally described as Lot 11 DP 1225135 and Lot 12 DP 1225135 (respectively).

Site fill material has been identified as being impacted to varying degrees with heavy metals, total recoverable hydrocarbons (TRH), polycyclic aromatic hydrocarbons (PAHs) and asbestos based on a proposed mixed land use, and requiring remediation/management as part of the proposed development.

This report supports an Early Works State Significant Development Application (SSDA) (SSD-82328958) being lodged with the Department of Planning, Housing and Infrastructure (DPHI) for site establishment works, tree removal, bulk excavation, remediation, basement retention and ancillary works for the development of the site into a mixed-use residential precinct. The site is also known collectively as Sites 8A to 8D and 19A to 19B of the GSTC.

It is understood that two SSDAs are being lodged for the site, one for Early Works and another for the Main Works. Given the proposed cap and containment remedial strategy, final remediation and validation outcomes may only be achievable upon completion of the built form and establishment of final landscaping elements. Therefore, it is recommended that any site conditions relating to Site Audit Statements (SASs) take into account the proposed staging.

The objectives of this RAP are to:

- Document the remediation works to be undertaken within the site, to make this portion of the GSTC suitable for the proposed mixed land uses;
- Detail the preferred remediation strategy for the site, consistent with the remediation options outlined in the Overarching RAP for the GSTC (JBS 2013[1]) taking into consideration the development objectives and staging requirements; and
- Document the procedures and plans to be followed during remediation/management to remove the risks posed by impacted fill soil within the site.

The remedial strategy involves capping and containment. Surplus fill beyond the site's storage capacity will be excavated and disposed of off-site. This RAP follows the overarching GSTC RAP principles, Voluntary Planning Agreements for Stages 4 and 5, and has been prepared in general accordance with relevant NSW EPA guidelines.

[1] *Overarching Remedial Action Plan, Green Square Town Centre*. JBS Environmental Pty Ltd, September 2013 (JBS 2013).

1. Introduction

1.1 Background

JBS&G Australia Pty Ltd (JBS&G) was engaged by Mirvac Projects Pty Ltd (Mirvac, the Client) to prepare a Remedial Action Plan (RAP) detailing the works required to remediate impacted fill material within the Stage 4 and Stage 5 (the site) portions of the Green Square Town Centre (GSTC) project to make these portions of the GSTC suitable for the proposed mixed (residential with minimal access soil, retail/commercial and student accommodation) land uses.

The site is located at 6 Geddes Avenue and 411 Botany Road, Zetland, NSW. It is situated within the Sydney Local Government Area (LGA) and is located approximately 3.5km south of the Sydney CBD and within immediate proximity of the Green Square Railway Station. The site forms the southern component of the Mirvac HDA proposal, consisting of two lots which are legally described as Lot 11 DP 1225135 and Lot 12 DP 1225135 (respectively). The site location and layout are shown on **Figures 1** and **2**, respectively.

Site fill material has been identified as being impacted to varying degrees with heavy metals, total recoverable hydrocarbons (TRH), polycyclic aromatic hydrocarbons (PAHs) and asbestos based on a proposed mixed land use, and requiring remediation/management as part of the proposed development.

This report supports an Early Works State Significant Development Application (SSDA) (SSD-82328958) being lodged with the Department of Planning, Housing and Infrastructure (DPHI) for site establishment works, tree removal, bulk excavation, remediation, basement retention and ancillary works for the development of the site into a mixed-use residential precinct. The site is also known collectively as Sites 8A to 8D and 19A to 19B of the GSTC. The proponent for the SSDA is Mirvac Green Square Pty Limited.

The proposal aims to:

- Facilitate the early works required for the Ministerial declared Housing Delivery Authority (HDA) site under SSD-84322496 relating to the sites south of the Green Square Plaza, which will establish a vibrant mixed-use precinct, expected to deliver 1,000 to 1,200 dwellings across the entire Mirvac Green Square HDA proposal.
- Enable site establishment, erosion and sediment control, tree removal, bulk excavation, remediation and basement retention to ensure the site is suitable for the future proposed mixed-use residential development.
- Ensure the expedient delivery of the HDA application at the site (SSD-84322496) as per the requirements of the Minister for Planning and Public Spaces under the Housing Development Authority (HDA) approval pathway.

It is understood that two SSDAs are being lodged for the site, one for Early Works and another for the Main Works. This SSDA seeks approval for the early works, comprising:

- Site establishment works;
- Erosion and sediment control;
- Tree removal;
- Bulk excavation to establish future basement levels;
- Basement retention and piled shoring works;
- Infrastructure services coordination and augmentation; and
- Ancillary works.

This SSDA also seeks the Torrens title subdivision of the site.

The proposed works form part of the Early Works required to enable the HDA 'Main Works' development of the site. The site Main Works SSDA, the subject of a separate SSDA, will involve construction of the basement, above-ground structures and landscaping elements. Given the proposed cap and containment remedial strategy, final remediation and validation outcomes may only be achievable upon completion of the built form and establishment of final landscaping elements. Therefore, it is recommended that any site conditions relating to Site Audit Statements (SASs) take into account the proposed staging (**Section 6.3**).

1.2 Objectives and Scope of Work

The objectives of this RAP are to:

- Document the remediation works to be undertaken within the site, to make this portion of the GSTC suitable for the proposed mixed land uses;
- Detail the preferred remediation strategy for the site, consistent with the remediation options outlined in the Overarching RAP for the GSTC (JBS 2013[2]) taking into consideration the development objectives and staging requirements; and
- Document the procedures and plans to be followed during remediation/management to remove the risks posed by impacted fill soil within the site.

This RAP has been prepared in accordance with the overarching RAP (JBS 2013) for the GSTC, Voluntary Planning Agreement (VPA) for Stages 4 (VPA 2022a[3]) and Stage 5 (VPA 2022b[4]), and with reference to relevant guidelines made or approved by the NSW Environment Protection Authority (EPA), including NEPC (2013[5]), EPA (2017[6] and 2020[7]) and *State Environmental Planning Policy (Resilience and Hazards) 2021* (SEPP R&H 2021).

1.3 Housing Delivery Authority Background

On 19 December 2024, the HDA was established by DPHI to accelerate the delivery of housing across NSW, under the E*nvironmental Planning and Assessment (Housing Delivery Authority) Order 2024*. This has provided a new State Significant Development pathway in which the proposed redevelopment can be undertaken.

The site was declared State Significant Development (SSD) pursuant to *State Significant Declaration Order 2025 (No 2)* issued on 26 February 2025. The order specifies development in EOI application 232525 dated 17 January 2025, including development for the purposes of mixed-use development comprising commercial premises and residential accommodation with the provision for affordable housing and build to rent at 960A Bourke Street, 6 Geddes Ave and 411 Botany Road, Zetland, as identified in Schedule 18, is declared to be SSD.

The HDA SSD pathway has been established to accelerate the delivery of housing and requires that the subject SSD is lodged within 9 months from receipt of the Secretary's Environmental Assessment Requirements (SEARs). Current SEARs for the project were issued for Early Works on 15 April 2025 (SSD-

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[2] *Overarching Remedial Action Plan, Green Square Town Centre*. JBS Environmental Pty Ltd, September 2013 (JBS 2013).
[3] Registration of Planning Agreement pursuant to s7.6 Environmental Planning and Assessment Act 1979, Land Registry Document Identification: AS716029, Planning Agreement: Green Square Town Centre - Stage 4. Parties: The Council of the City of Sydney (Council), Mirvac Green Square Pty Ltd (Contractor), Landcom (Land Owner), Dated: 30 November 2022 (VPA 2022a);
[4] Registration of Planning Agreement pursuant to s7.6 Environmental Planning and Assessment Act 1979, Land Registry Document Identification: AS716030, Planning Agreement: Green Square Town Centre – LML Development - Stage 5. Parties: The Council of the City of Sydney (Council), Mirvac Green Square Pty Ltd (Contractor), Landcom (Land Owner), Dated: 30 November 2022 (VPA 2022b);
[5] *National Environment Protection (Assessment of Site Contamination) Measure, National Environment Protection Council, 1999, as amended 2013* (NEPC 2013);
[6] *Contaminated Land Management – Guidelines for the NSW Site Auditor Scheme (3rd Edition)*, NSW EPA, October 2017 (EPA 2017);
[7] *Consultants Reporting on Contaminated Land - Contaminated Land Guidelines*. NSW EPA, 5 May 2020 (EPA 2020);

82328958), Sites 7, 17 and 18 on 15 May 2025 (SSD-83899206) and for Sites 8 and 19 (the site) on 15 May 2025 (SSD- 84322496).

The key features of the Mirvac Green Square HDA proposal are to include:

- Detailed development consent for the purposes of a mixed-use development, with significant residential components comprising build-to-sell and build-to-rent dwelling stock and ground floor non-residential uses.
- Delivery of between 1,000 to 1,200 dwellings across 9 buildings in low-rise and high-rise tower formats.
- Delivery of Affordable Housing dwellings.
- Delivery of the components in two-stage detailed SSDA process.

In conjunction with the SSDA, a State-assessed rezoning process is intended to include the following:

- Revisions to mapped building heights with selected increases.
- Increase the mapped floorspace ratio (FSR) across the combined site.
- Removal of Clause 4.4A relating to specific gross floor area (GFA) land use limitations in mapped areas.

This SSDA forms part of the early works required to enable the future main works application at the site in relation to Sites 8A to 8D and 19A to 19B of the GSTC.

1.4 Secretary's Environmental Assessment Requirements

In accordance with section 4.39 of the Environmental Planning & Assessment Act 1979 (EP&A Act), Secretary's Environmental Assessment Requirements (SEARs) (SSD-82328958) (Early Works, Civil, Excavation and Remediation Works SSDA) have been issued. This report has been prepared to respond to the issued SEARs, as set out in **Table 1.1**.

Table 1-1: SSD-82328958 SEARS

SEARS	Response / Location in Report
Condition 13: Contamination and Remediation *In accordance with Chapter 4 of the State Environmental Planning Policy (Resilience and Hazards) 2021, assess and quantify any soil and groundwater contamination and demonstrate that the site is suitable (or will be suitable, after remediation) for the development*	Refer to Sections 2 – 13

2. Site Condition and Surrounding Environment

2.1 Site Identification

The site location is shown on **Figure 1**. The site layout and cadastral boundaries are shown on **Figure 2**. The proposed development is shown on **Figure 3**. Site details are summarised in **Table 2.1** below, and site setting is described in the following sections.

Table 2-1: Summary of Site Details

Item	Summary
Site Legal Identifiers	Stage 4 - Lot 12 DP1225135 Stage 5 – Lot 11 DP 1225135
Site Area (ha)	1.36
Site Geographic Coordinates (MGA Zone 56 GDA94)	Refer to **Figure 2**
Approximate Site RL m AHD	16 to 15
Local Government Authority (LGA)	The Council of the City of Sydney
County/Parish	Cumberland/Alexandria
Land Ownership	Mirvac
Previous Land Uses	Historically, a portion of the site operated as a quarry that was progressively backfilled with inert waste, with the balance of the site used for brick making. It was subsequently used as a police training facility and a stolen car yard compound. More recently, the site has been used as a construction staging compound associated with the development of the broader GSTC
Current Land Uses	Vacant land largely sealed with asphalt and concrete hardstands
Proposed Land Uses	Refer to **Section 1.1** for this SSDA. The future land use will comprise Mixed Use (residential, retail and student accommodation, with basement car parking below a portion of the site)

2.2 Proposed Development Details

The works proposed as part of this SSDA are detailed in **Section 1.1**. The following outlines the proposed final development scenario.

It is understood that the site is intended for rezoning and redevelopment. The redevelopment will include six multi-storey buildings, comprising five residential apartment buildings (Sites 8A, 8C, 8D, 19A and 19B) with ground-floor retail in areas, a student apartment complex (Site 8B), with basement car park beneath a portion of the residential buildings and future road network. Block 8D is proposed for affordable housing (AH). The development also includes the future road reserves of Hinchliffe, Barker and Woolpack Streets, some portions of the road reserves above the basement podium, whilst other portions of the road network at grade beyond the basement envelope, as shown on **Figure 3**.. Architectural plans are provided in **Appendix A**.

2.3 Site Condition, Setting and Surrounding Environment

A summary of the site condition, setting and surrounding land uses is provided in **Table 2-2**.

Table 2-2: Summary of Site Condition, Setting and Surrounding Land Use

Item	Summary
Condition	The site is secured by wooden construction fencing. The site is predominantly sealed with asphalt and concrete hardstand pavements. Landscaped areas fronting Botany Road comprise several mature trees, noted to be healthy with no sign of stress or stain, with exposed site soil (fill) in areas, albeit limited.
Surrounding Land Uses	The site is located within the GSTC, which is being remediated and developed in stages for mixed land uses consisting of residential, recreational and retail/commercial developments along with the delivery of essential infrastructure (road reserves, public open space and community facilities). A large portion of the GSTC has now been developed and is occupied. The surrounding land uses of the site are described as follows: • North: Green Square Library and Plaza. Further afield is Stage 3, being developed for Mixed Land Use (residential and retail) • East: Paul Street, and in turn, public open space (Drying Green) • South: Geddes Avenue, and in turn, a residential apartment complex with basement car parking. • West: Botany Road, across which are various commercial/industrial allotments.
Topography (m AHD)	16.0 to 15.0 m
Geology and Soil	**Geology and Soils** Based on the 1:100,000 Sydney Geological Survey Sheet 9130 (1983[8]), the site is underlain by Quaternary sediments known as the Botany Sand Beds (BSBs). These consist of unconsolidated to semi-consolidated, permeable, medium- to fine-grained quartz marine sands with minor shell fragments and podzols. Peat, peaty sands, silts, and clays appear more frequently in the lower layers. The BSBs can reach thicknesses of 30 to 60 m and typically overlie Hawkesbury Sandstone. Regional soil mapping (DLWC 2002[9]) indicates that the site in the area that belongs to the Tuggerah Soil Landscape Group, characteristic of coastal dune fields with slopes generally between 1 to 10%, occasionally up to 35%. These soils comprise deep podzols and podzol/humus podzol intergrades, with low fertility, high permeability, and susceptibility to wind and wave erosion. Native vegetation has been largely cleared. **Site Fill and Natural Materials** Fill across the site is variable and comprises heterogeneous gravels, silty and sandy clays, and clayey sands at varying depths. Construction debris, including bricks, asbestos containing material (ACM), metals, tiles, ceramics, glass, crushed sandstone, boiler ash, and slag, has been identified within the fill profile, with fill material historically progressively imported to backfill former quarry operations, resulting from historical brick making activities or former commercial and police operation land uses. Beneath the fill, natural soil (which has been extensively quarried) consists of heterogeneous brown clay soils overlying Hawkesbury sandstone and shale bedrock.
Acid Sulfate Soil	Based on a review of the Botany Bay Acid Sulfate Soil Risk Map (DLWC 1997[10]), the site lies within an area of 'no known occurrences of acid sulfate soil materials (ASS). Given the

[8] *1:100 000 Sydney Geological Map Sheet 9130 Edition 1*. Department of Mineral Resources, Published 1983 (DMR 1983);
[9] *1:100 000 Sydney Soil Landscape Series Sheet 9130 (second edition)*. Department of Land and Water Conservation 2002 (DLWC 2002);
[10] *Acid Sulfate Soil Risk Map – Edition Two, Botany Bay*. Department of Land and Water Conservation, published December 1997 (DLWC 1997);

Item	Summary
	site's geological and soil characteristics, and in light of this classification, specific management measures for actual or potential acid sulfate soil (ASS/PASS) are not required for development activities. The nearest identified occurrence of ASS is within the sediments of Alexandra Canal, approximately 1.2 km southwest of the site.
Hydrology	The nearest surface water receptor is Sheas Creek (brackish water body), located approximately 240 m to the west of the site. Sheas Creek flows to Alexandra Canal, which flows into the Cooks River (marine), approximately 4.9 km to the southwest, which ultimately discharges into Botany Bay (marine), located around 5.8 km from the site. Currently, impervious pavements cover more than 95% of the site, resulting in rainfall being largely managed by the existing stormwater infrastructure. Runoff is directed toward the road drainage (Botany Road) before entering the broader regional stormwater system. It is understood that regional stormwater is conveyed via underground infrastructure that ultimately discharges into Alexandra Canal. In the unsealed areas of the site, rainfall is expected to infiltrate the relatively permeable sandy fill soils. Any excess surface runoff from these areas is anticipated to enter the surrounding stormwater system, contributing to overall drainage toward Alexandra Canal.
Hydrogeology	Two main groundwater systems exist in the vicinity of the site and more broadly across the BSBs: • A shallow, unconfined to semi-confined aquifer system resident within the unconsolidated sediments of the BSBs; and • A deep confined groundwater system resident in the fractures / porous Hawkesbury Sandstone / Shale, which forms the base of the Botany Basin aquifer. Past investigations at the site have reported a shallow unconfined aquifer in fill material, encountered from approximately 1.85 to 7 m bgs (approximately between 13 to 7 m AHD), and a deeper confined aquifer located in fractures and joints within the Hawkesbury Sandstone/Shale. Groundwater within the deeper aquifer is expected to occur within fractures and joints within the underlying Hawkesbury sandstone/shale bedrock. The deeper aquifer is inferred to be limited to specific water-bearing intervals of the underlying Hawkesbury Sandstone. Perched groundwater is inferred to be present underlying the site in intermittent zones within fractures and joints within the sandstone/shale bedrock; however, it is limited in extent. This is supported by observations during the previous investigations that noted bedrock was relatively dry during drilling and historical site land use (quarry). On this basis, the deeper aquifer is considered to occur at a greater depth than the borrow pit. Notwithstanding, the borrow pit may intersect perched groundwater within bedrock fractures and joints, the extent of this is expected to be minor. Consistent with the findings of the risk assessment, the placement of fill is not expected to result in an unacceptable ecological or human health risk. Reflecting the historically extensive use of groundwater in the Botany Sands aquifer, a significant number of registered groundwater wells have previously been identified in the proximity of the site. A review of the *Temporary Water Restriction (Botany Sands Groundwater Source) Order 2024* map (NSW DPIE 2024[11]) indicates that the site is located within Area 2 of the Botany Sand Aquifer Restriction Area. The NSW Department of Primary Industry and Environment (NSW DPIE) indicates that "chemicals such as chlorinated hydrocarbons and other solvents, petroleum hydrocarbons (such as petrol and diesel), and some heavy metals such as chromium, nickel, lead and arsenic, have polluted groundwater in parts of the aquifer". Domestic use of groundwater in Areas 1 and 2 is

[11] *Temporary Water Restriction (Botany Sands Groundwater Source) Order 2024*, NSW Department of Industry (NSW DI 2022);

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	prohibited. Conditions are also in place for taking water for non-domestic uses and specified industrial water access licences. Based upon local topographical features and groundwater data available from historical assessment of the site, groundwater flow is anticipated to occur in a westerly / south-westerly direction and is likely influenced locally by a former dam alignment and former quarrying activities.
Meteorology	The Sydney area has a humid to temperate climate with a seasonal rainfall maximum during the summer and autumn months. The average annual rainfall for Sydney Airport Station is 1096 mm (BOM 2025[12]). The area has a history of droughts, which are broken by periods of heavy rainfall resulting in significant recharges to groundwater resources. The 1940s and 1980s, and the current decade, are observed to be dry periods, while the early 1970s and 1990s were wet periods. Summer winds are north-easterly with southerly thunderstorms common. Winter winds are westerly.

[12] *Bureau of Meteorology, Climate statistics for Australian locations, Sydney Airport AMO*, http://www.bom.gov.au/climate/averages/tables/cw_066037.shtml, accessed 15 May 2025 (BOM 2025);

3. Site History and Previous Investigation

3.1 Development Area History

The following presents a summary of the site history, as presented in previous investigations (JBS&G 2025b[13]), with relevant features shown on **Figure 2**, where applicable. A detailed description is provided in previous reports.

- **1818–1830s**: The site and surroundings were developed, accommodating Waterloo Mill (grain, then wool washing). The site became part of a Crown land grant, later absorbed into the Waterloo (Cooper) Estate. The Waterloo Dam was present.
- **1821**: Botany Road to the west was constructed.
- **1880–1900**: Nearby land subdivided for residential use (Zetland Estate). Geddes Wool Scouring Works occupied parts of the site. The area was characterised by various industrial uses (e.g., wool washing, brick yards, chemical works).
- **1910–1930s**: The Industrial Brick Company purchased the Development Area and its surroundings and quarried it for brickmaking. Voids were progressively backfilled with inert waste. Brick rejects were discarded within the western portion of the site in a separate, smaller quarried extent.
- **1930–1966**: Activities included former quarrying and backfilling, and industrial uses (e.g., automotive, scrap metal), followed by the construction of the Police Site (Rescue & Bomb Disposal Unit).

  Council records indicated that underground storage tanks (USTs) and a spray booth were installed on the police site between 1954 and 1956. NSW WorkCover (now SafeWork NSW) records identified three USTs at the Police Services Site (beyond the subject site boundaries):

  - 27,850 L (T25) diesel UST
  - 33,560 L (T30) unleaded petrol UST
  - 43,800 L (T40) leaded petrol UST

  Additionally, five fuel dispensers and associated pipework were present (beyond the site extent).

  Previous report also identified the presence of a helicopter pad associated with the Police Site, located within the site (**Figure 2**), with a ‘stolen car’ parking area located adjacent to Botany Road.
- **2012–2013**: Former buildings on the Police Site were the subject of hazardous building material removal activities prior to demolition to ground slab level in 2013.
- **2014**: Petroleum infrastructure and contaminated soils were excavated and remediated under a VPA, as documented in JBS&G (2025b).
- **2014–present**: The site has remained vacant, largely sealed with hardstands.

[13] Detailed Site Investigation, Green Square Town Centre, Stage 4 and 5, Mirvac Green Square Pty Ltd, Prepared by JBS&G Australia Pty Ltd, Ref: 69329 | 167,887 Revision 0, dated 8 September 2025 (JBS&G 2025b)

3.2 Previous Site Investigations

A detailed list and chronology of previous investigations, including Site Auditor review/endorsement of previous reports, is provided in JBS&G (2025b and 2025c[14]). The following presents a summary of the key findings from those investigations.

- **Sample Density:**

  The site occupies an area of approximately 1.36 ha. For an area of 1.36 ha, the NSW EPA (2022[15]) *Sampling Design Guidelines* recommend a minimum of 23 systematic soil sampling locations for the detection of circular contamination 'hotspots'. Historically, 61 sample locations have been advanced across the site. Historical investigations have been the subject of quality assurance/quality control (QA/QC) evaluation, with the data considered to be of acceptable quality for site characterisation and remedial planning.

- **Soil Contamination**:

  Fill material across the site has been reported to be impacted to varying degrees with heavy metals, TRHs, PAHs, and asbestos (bonded and friable), generally exceeding the adopted ecological criteria, and in some instances, the human health criteria. Analytical summary tables are presented in **Appendix B**. Soil sample locations are shown on **Figure 4**.

- **Soil Leachability**:

  With the exception of fill at sample location S5-W1 (western extent of the site, Stage 5), most detected constituents in fill were reported to contain low leachable properties or below the laboratory limit of reporting (LOR) and suitable for on-site retention under a cap/cover remedial strategy (JBS&G 2023a[16] and 2025c). Fill at sample location S5-W1 may potentially contain leachable zinc properties, based on Toxicity Characteristic Leaching Procedure (TCLP) analysis, which will require further assessment to support any potential on-site retention with regard to fill with this portion of the site.

- **Extent of Fill/Soil Impact**:

  With the potential exception of fill material at sample location S5-W1 there is no discernible pattern or distribution to impacts; as such, it is considered appropriate to identify the fill material as a whole as impacted rather than refer to the presence of hotspots, given the number and distribution of contaminant detections above the assessment criteria. Natural material underlying the fill was not reported to be impacted, requiring remediation/management. As noted above, fill at sample location S5-W1 potentially contains leachable zinc properties, which will require further assessment to support any potential on-site retention of fill within the site.

- **Groundwater Quality**:

  Elevated concentrations of heavy metals and ammonia in groundwater were reported above the adopted criteria but were considered to originate from upgradient/regional sources. These impacts were not found to pose a risk to human health or the environment. Groundwater extraction is currently prohibited, as the site lies within Area 2 of the Botany Sands Groundwater Source. Analytical summary tables are presented in **Appendix B**. Groundwater sample locations are shown on **Figure 5**.

[14] Fill Retention Risk Assessment, Green Square Town Centre, Stage 4 and 5, Mirvac Green Square Pty Ltd, Prepared by JBS&G Australia Pty Ltd, Ref: 69329|168638 Revision 0, dated 9 September 2025 (JBS&G 2025c)
[15] *Sampling Design Part 1 Application.* NSW EPA Contaminated Land Guidelines 2022 (EPA 2022)
[16] Remediation Action Plan, Green Square Town Centre, Stage 3 and 4, Mirvac Green Square Pty Ltd, Prepared by JB&G Australia Pty Ltd, Ref: 62236|151336 Revision 0, dated 9 June 2023 (JBS&G 2023a)

- **Ground Gas**:

  Ground gas levels within the fill were low, with minimal off-site migration. No additional assessment for methane generation was deemed necessary.

- **Soil Vapour**:

  No soil vapour contamination has been identified at the site.

- **Asbestos**:

  Asbestos exceeding the adopted land use criteria has been identified in both bonded and non-bonded (friable) forms.

- **Data Gap:**

  To support the on-site retention of fill material in and around sample location S5-W1, either in-situ or within the proposed borrow pit (**Section 4**), and/or to refine the extent of impacted fill requiring remediation via excavation and off-site disposal, additional characterisation is required in line with the recommendations in JBS&G (2025c). This characterisation will focus on assessing potential leachable zinc concentrations and further characterise fill properties to inform management decisions.

  Proposed sampling locations are shown on **Figure 6**. Samples will be collected beneath hardstand pavements starting at 0.3 m below ground level (bgl), then at 0.5 m bgl, and at 0.5 m intervals thereafter until at least 0.5 m into natural soil/rock, to an extent practicable. Sample locations will be advanced via a combination of manual excavation (hand auger, around trees/shallow fill) and mechanically, via a track-mounted drill rig with solid flight auger and push tube attachments. Representative samples will be submitted at a density of 1 sample per 250 m^3 of fill material estimated from within Stage 5 portion of the site. Samples will be submitted to the laboratory for eight heavy metals, TRH, PAHs, and subjected to Australian Standard Leaching Procedure (ASLP) testing for the same analytes using site groundwater, sourced from sample location MW524, or MW530, or S5-W3, which is screened within the deeper aquifer for which fill will be placed.

  Following receipt of the laboratory certificates of analysis, an addendum to the risk assessment will be prepared seeking the Site Auditor's endorsement of the management decision put forward prior to remedial works in this portion of the site.

- **Depth of Fill**

  The depth of fill across the site is shown on **Figure 7**, with some areas exhibiting considerable thickness due to historical quarrying activities and subsequent backfilling of the quarry void.

- **QA/QC:**

  As noted above, based on the findings of previous investigations, including the Site Auditor's IAA, the data were deemed to be of acceptable quality for the purposes of remedial planning.

4. Fill Retention Strategy

The overarching RAP (JBS 2013) for the GSTC presented a remediation/site management strategy whereby impacted fill material would be retained on-site and capped, and material in excess of development objectives would be remediated via excavation and off-site disposal.

Site fill material has been reported to be impacted to varying degrees with heavy metals, TRH, PAHs and asbestos. Consistent with the remediation approach of in-situ containment of impacted material adopted in the overarching RAP (JBS 2013), fill material required to be excavated to facilitate the development of Stage 4 and Stage 5 is proposed to be retained within a sub-basement void within a portion of Stage 4 or capped in-situ. Virgin excavated natural material (VENM) comprising site soil/rock within Stage 4 will be excavated as required for off-site re-use, to facilitate the construction of the void.

A Fill Retention Risk Assessment (FFRA, JBS&G 2025c) has previously been undertaken to evaluate the potential suitability of the retention of fill material within a sub-basement void beneath a portion of the Stage 4 basement at depths in preference to off-site disposal to landfill. The FFRA was based on a fill remediation/retention scenario involving over-excavation of the Stage 4 lower-level basement to form a 'borrow pit' and placement of fill material excavated from the site displaced as a result of site development into the borrow pit under a cap and containment remediation strategy. The borrow pit is proposed to be constructed within the low transmissive shale/sandstone bedrock. The FFRA concluded that the retention of fill material currently situated within the site, excluding those within Stage 5 requiring further assessment due to potential leachable zinc properties, is not likely to pose potential human health or ecological risks.

4.1 Proposed Fill Retention Remedial Scenarios

The proposed retention scenarios are summarised as follows:

4.1.1 The Borrow Pit and Basement Details

An integrated multi-level basement excavation is proposed to be advanced across a portion of Stage 4 and 5 (refer to **Figure 3** and **Appendix A**), to elevations ranging from RL 3.66 m AHD in the western Stage 5 extent, and RL 7.78 m AHD in the eastern Stage 4 extent.

The basement secant-pile walls (or similar) are proposed to be advanced to at least the target basement floor level, being in low transmissive units, with hard piles extending to a maximum depth of - 6.00 m AHD.

Excavation of the borrow pit is required from 4.16 m AHD to -3.16 m AHD, with its lateral extent (4,317 m^2) shown on **Figure 8**. The resulting sub-basement void (borrow pit) will provide a storage capacity of $\leq$ 30,000 m^3.

The base and walls of the borrow pit must be founded within low-permeability bedrock associated with Stage 4, in accordance with the requirements of the FFRA (JBS&G, 2025c).

Where low-permeability bedrock is not encountered beneath the Level 3 Basement within Stage 4, retention structures, such as basement or borrow pit pile walls, must be socketed into Class I to III bedrock to mitigate potential groundwater ingress or seepage through fill-derived soils. Based on design drawings provided in **Appendix A**, basement pile walls are required to support the overlying structure, effectively acting as a cutoff wall to overlying permeable units meeting the FFRA requirements.

VENM excavated from the sub-basement void will be exported off-site for beneficial reuse in accordance with Schedule 1 of the POEO Act.

Tables 4.1 summarises the anticipated disturbance of fill and natural soil/rock materials required to accommodate the development and the associated fill retention strategy.

Table 4-1 Proposed Fill Retention Scenario Volume Estimates[17]

Location	Area (m^2)	Excavation Surface RL (m AHD)	Base Excavation Level RL (m AHD)	Estimated Excavation Volume (m^3)	Estimated VENM Volume (m^3)	Estimated Fill Volume (m^3)
Block 19B Ramp	196	15.4-16.8	11.60	800	0	800
Block 19A + Woolpack St	2,653	14.9-18.0	7.78	20,500	8,500	12,000
Block 8C + Woolpack & Barker St	4,317	14.5-15.4	4.16	47,000	34,000	13,000
Block 8A + Hinchcliff St	2,665	13.5-15.3	3.66	28,500	23,000	5,500
Sub-Basement Void	4,317	~4.16-3.66	-3.16	$\leq 30{,}000$	$\leq 30{,}000$	0
Road Reserves[18]	600			Surface Scrape	0	500
Building Footprints[19]	3150			Surface Scrape	0	1600
				Total Generated Soil (Fill)[17]	~33,000 m^3	
				Total Generated Soil (VENM)	~66,000 m^3	
				Total Generated	~100,000 m^3	
				Total Retained in Sub-Basement Void	$\leq$ 30,000 m^3	

4.1.2 Fill Material Retained In-Situ (beyond the borrow pit)

The following presents the site capping arrangement beyond the borrow pit. Areas to be dedicated to Council are shown on **Figure 3**. **Tables 4.1** and **4.2** summarise the anticipated disturbance of fill and natural soil/rock materials required to accommodate the development and the associated fill retention strategy.

Land to be Dedicated to Council – Areas 4A/4B (Hinchliffe, Barker and Woolpack Streets)

Where land is to be dedicated to Council and requires ongoing management via implementation of a physical barrier (cap), future road reserves of Hinchliffe, Barker, and Woolpack Streets, works must include the placement of a marker layer above any potentially contaminated material at a depth of 850 mm below the final surface level.

Above this marker layer, validated subgrade material suitable for potential human and ecological exposure (where required) is to be placed, followed by the final pavement layer (e.g., concrete, asphalt, or pavers). Refer to **Section 6.2.1** for further details.

Where underground services are to be installed below 850 mm, infrastructure must be placed above a marker layer within validated fill that is suitable for human and/or ecological exposure.

[17] No allowance/estimates have been made for detailed excavations, battering or piling soil. For accurate fill estimate, a quantity surveyor should be engaged.
[18] Road reserves beyond the basement podium, assumed 0.85m cut.
[19] Building footprints beyond the basement podium, assumed 0.5m cut.

Refer to **Figures 9A** and **9B** for capping arrangements.

It is noted that the above capping arrangement does not apply where the road reserve is above the basement podium.

Land to be Dedicated to Council – Areas 6 and 7 (footpaths fronting Botany Road)

Where land is to be dedicated to Council and requires ongoing management via implementation of a physical barrier (cap), along Botany Road, the works must include the installation of a marker layer above any potentially contaminated material at a depth of 400 mm below the final surface level.

This is to be followed by placement of validated subgrade material suitable for human and ecological exposure (where required), and then the final pavement layer (e.g. concrete, asphalt, or pavers). Refer to **Section 6.2.1** for further details.

Where underground services are to be installed below 400 mm, infrastructure must be placed above a marker layer within validated fill deemed suitable for potential human and/or ecological exposure.

Refer to **Figures 9A** and **9B** for capping arrangements.

It is noted that the above capping arrangement does not apply where the road reserve is above the basement podium.

Land Retained by Mirvac Beyond the Borrow Pit

Based on the development plans understood at the time of RAP preparation, the following capping and cover procedures are to be implemented within the site, excluding those associated with the Borrow Pit (**Sections 4.1** to **4.2**), Areas 4A/4B, Area 6, and Area 7, which are addressed separately above.

- Buildings: Fill materials beneath buildings are to be covered by the installation of a marker layer placed over potentially contaminated material to indicate the extent of retained fill (excluding below the tanked basement). The concrete floor slab will serve as a physical barrier. Buildings are expected to cover the majority of the site.
- Permanent Paved Areas Outside Building Footprints: These areas are to be capped by a marker layer placed over potentially contaminated material, followed by sub-grade material validated as suitable for human exposure (where required), and completed with permanent pavement (e.g. concrete, asphalt, or pavers).
- Landscaped Areas:
    - In shallow planting zones (e.g. grasses and shrubs), the marker layer is to be installed at a minimum depth of 0.5 m below final site levels.
    - In areas designated for tree planting, the marker layer is to be installed at a minimum depth of 1.5 m below final site levels.
    - Above the marker layer, environmentally suitable materials are to be placed to reach the final surface levels.
- Underground Service Trenches: Where underground services are to be installed, infrastructure must be placed above a marker layer within validated fill material deemed suitable for potential human and/or ecological exposure.

Refer to **Figures 9A** and **9B** for capping arrangements.

Contingency - Interim Capping Arrangements

As the site is subject to two separate SSDAs, if the final capping arrangement outlined above cannot be implemented as part of the Early Works SSDA, the following interim measures are required until completion of the Main Works:

- An interim capping layer comprising 150 mm of environmentally suitable material, protective of human and ecological health (if applicable) underlain by a marker layer, must be installed across the site (or the relevant portion requiring sign-off under the Early Works SSDA).
- Where underground services are to be installed beneath the 150 mm interim capping layer, all infrastructure must be placed above a marker layer within fill material validated as suitable for potential human and/or ecological exposure.

Refer to **Figures 9A** and **9B** for capping arrangements.

5. Conceptual Site Model

NEPC (2013) identifies a conceptual site model (CSM) as a representation of site-related information regarding contamination sources, receptors and exposure pathways between those sources and receptors. The development of a CSM is an essential part of all site assessments.

- NEPC (2013) identified the essential elements of a CSM as including:
- Known and potential sources of contamination and contaminants of concern, including the mechanism(s) of contamination.
- Potentially affected media (soil, groundwater, vapours etc.).
- Human and ecological receptors.
- Potential and complete exposure pathways; and
- Any potential preferential pathways.

Based on the available information and the findings of previous investigations, the following CSM for the site has been presented in **Table 5-1.**

Table 5-1: Conceptual Site Model

CSM Aspects	Summary of Available Information
Known and Potential Site Contamination Sources	**Fill/Soil**: Fill materials from historical activities and/or imported to backfill the former quarry have been reported to be impacted, requiring remediation/management. The depth of fill is shown on **Figure 7**. Natural soils were generally unaffected. Where impact was encountered, it was limited to the upper 0.1 m and likely associated with the site sampling methodology involving boreholes. The FFRA (JBS&G 2025c) assessed the risks posed by potentially complete exposure pathways to on-site and downgradient receptors from leaching of fill soils and concluded that the placement of fill materials from the site into a borrow pit located within the footprint of Stage 4 did not present unacceptable contaminant migration risks to groundwater under anticipated environmental conditions. **Groundwater**: Groundwater has been reported to be impacted, as discussed below. **Ground Gas/Vapour**: Assessment previously undertaken for the presence of fill gases/vapours reported across the GSTC identified low concentrations and minimal off-site migration. Vapours have not been identified at the site, and further assessment works for potential methane generation from landfilled materials at the site are not required. **Data Gap**: Further assessment of fill within Stage 5 is required, as discussed in **Section 3.2.**
Potentially Affected Site Media	**Fill Material**: Site fill has been found to be impacted with heavy metals, asbestos (bonded and friable), TRH and PAHs. There is no discernible pattern or distribution to impacts; as such, it is considered appropriate to identify fill as a whole as impacted. Fill material at sample location S5-W1 has been reported to potentially contain potentially leachable zinc properties, which will require further assessment to support any potential on-site retention and/or refine the extent requiring off-site disposal. **Groundwater**: Groundwater underlying the site has been found to have a range of heavy metals and ammonia above the adopted criteria, consistent with regional background levels. The site was not identified as contributing to reduced groundwater quality.
Human and Ecological Receptors	The key receptors which would be exposed to potential impact on the site include both human and ecological receptors. The primary human receptors include:

CSM Aspects	Summary of Available Information

	• future users of the site, including residents, on-site intrusive maintenance or construction workers;
	• Off-site human receptors include:
	  ○ Off-site residents and users of the adjacent residential properties;
	  ○ Off-site intrusive maintenance or construction workers; and
	  ○ Commercial/industrial workers of the properties.
	Ecological receptors include:
	• Off/on-site groundwater-dependent ecosystems. No key ecological receptors are identified on the site, with the site largely paved. Several mature trees are present on the frontage of Botany Road, which appear healthy.
	As noted above, the FRRA (JBS&G 2025c) assessed the risks posed by potentially complete exposure pathways to on-site and downgradient receptors from leaching of fill soils and concluded that the placement of fill materials from the site into a borrow pit located within a portion of the footprint of Stage 4 did not present unacceptable contaminant migration risks to groundwater under anticipated environmental conditions.
	The nearest surface water receptor is Sheas Creek (brackish water body), located approximately 250 m to the west of the site. Sheas Creek flows to Alexandra Canal, which flows into the Cooks River (marine), approximately 4.9 km to the southwest, which ultimately discharges into Botany Bay (marine), located around 5.8 km from the site.
	The site is located within Area 2 of the Botany Sand Aquifer Embargo Area, designated due to known or suspected contamination from past industrial activity.

Potential and Complete Exposure Pathways	The potential pathways of concern for fill impact to pose a risk to future on-site occupiers and off-site receptors include: • Oral and dermal direct contact with impacted soils and groundwater. • Vapour intrusion into future site structures of hydrocarbons. • Inhalation of airborne contaminants (including airborne asbestos fibres). • Lateral groundwater migration off-site or vertical migration.
Preferential Pathways for Contamination Migration	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 solids, liquids, or gases. Man-made preferential pathways are present within the site as associated with current/future underground infrastructure or service trenches adjacent to the site's boundary, or potentially traversing the site to adjacent properties. Potential remains for vertical migration of COPCs associated with fill materials to groundwater, albeit limited based on previous investigations/leachate data.
Potential for Offsite Migration	The COPC identified during previous investigations are generally present in solid form (e.g. heavy metals, bonded asbestos, PAHs). As such, there is currently considered to be minimal potential for contamination migration by wind-blown dust and surface water movement. In addition, the site is currently primarily paved and will continue to be primarily paved following the proposed development by way of the constructed basement basal slab across the development footprint and/or hardstand pavements. The potential for contaminant migration, via surface water movement and infiltration, whether in solid or liquid form (e.g. TRH/TPH), is generally considered low and not considered to represent an unavailable ecological risk based on the findings of previous investigations.

6. Remedial Action Plan

6.1 Remediation Goal

The goal for the remediation and/or management of identified environmental impact at the site is to:

- Remove unacceptable risks posed to human populations living at/working on/visiting the site from fill material;
- Eliminate the potential for site development activities to result in the generation of additional media impacts, resulting in unacceptable risks to human and ecological receptors; and
- Conduct remediation works in a manner consistent with principles of ecological sustainable development (ESD) and achieve Mirvac's sustainability objectives.

6.2 Regulatory and Planning Requirements

6.2.1 Planning Context

The planning requirements applicable to the proposed remediation works are presented below.

Water Management Act 2000

Dewatering associated with remediation or construction works for the site will require approval from the NSW Department of Climate Change, Energy, the Environment and Water (DCCEEW). This approval must be obtained prior to any groundwater extraction. Temporary dewatering is expected to be required only during excavation for the sub-basement void and basement structure construction.

City of Sydney (2004) 'Contaminated Land Development Control Plan'

The Council DCP provides a number of environmental and site management provisions required to be employed during remediation works. These will need to be adopted as minimum standards for the environmental management of remediation works and requirements of ongoing environmental management plans.

Protection of the Environment Operations Act 1997

In the event an Environment Protection Licence (EPL) is required to be obtained, then this will be undertaken prior to commencement of remediation works. The volume of fill requiring remediation/management as a result of earthworks is less than 30,000 m^3.

POEO (Waste) Regulation 2014

The regulation sets out requirements for non-licensed waste activities and the transport of waste. The proposed remedial works, comprising on-site capping and containment either beneath a portion of the Stage 4 basement or external to the basement within the site, are consistent with the Overarching GSTC RAP (JBS 2013), as endorsed by an NSW EPA-accredited Site Auditor.

However, should any material require off-site disposal, thereby classifying it as waste, Section 48 of the regulation applies. This section requires that waste be stored in an environmentally safe manner and that vehicles used for its transport must be covered while loaded.

Waste Classification Guidelines (EPA 2014)

All wastes generated and proposed to be disposed off-site shall be assessed, classified and managed in accordance with this guideline. Where wastes require immobilisation prior to off-site disposal (to reduce the waste classification), an immobilisation approval shall be sought in accordance with Part 2 of this guideline. Immobilisations are only anticipated to be required with unexpected finds.

State Environmental Planning Policy (Resilience and Hazards 2021 – Chapter 4: Remediation of Land)

The proposed remedial works are relatively straightforward and are best addressed as part of the SSDA for the associated Early Works, as they are ancillary to the broader project. On this basis, the works are considered Category 1 Remediation Works under SEPP R&H 2021 and require development consent in accordance with the *Environmental Planning and Assessment Act 1997*.

Planning Agreement Green Square Town Centre – Stage 4 and Stage 5

Two separate agreements exist, one for Stage 4 (VPA 2022a) and one for Stage 5 (VPA 2022b). Remedial works must be carried out in accordance with the requirements of these agreements. Specifically, with regard to remediation for the site, the following is required for areas that require ongoing management via implementation of a physical barrier (cap) that are located beyond the basement extent (i.e. where the road is at grade):

<u>Area 4A/B – Road Reserves</u>

- An interim capping layer "*at 150 mm above existing ground levels and within any relevant environmental planning instrument and approvals and all structures, footings, redundant underground services, culverts and kerbs removed to depth*" is required to be installed across the land to be dedicated;
- Within road reserves/service corridors, "*700 mm below design surface levels as indicated in the Essential Infrastructure DA Plan and with any relevant environmental planning instrument and approvals and all structures, footings, redundant underground services, culverts and kerbs removed to depth*";
- "*The Contractor must remove and Remediate any underground storage tanks from the Contribution Lands that are identified in the Remedial Action Plan and require to be removed from Contribution Lands under the Remediation Action Plan or as otherwise uncovered by the Contractor irrespective of the depth at which those underground storage tanks are located*";
    - JBS&G note these works were completed in 2014, as documented in JBS&G (2025b);
- "If there is a risk of pollution migrating from the Contribution Land below the minimum depth and interim cap level, then the Contractor must remediate below that level to remove that risk";
- "The Contractor will engage a site auditor to prepare the Contractor Remediation Statement in accordance with the Remedial Action Plan and anything else required by law, including under the *Contaminated Land Management Act*"; and
- "The Contractor must supply and install a security fence adjacent to the Contributing Lands prior to transfer to the Council to prevent public access on to those parts of the site which have not been Remediated".

<u>Area 6 and 7 – Footpaths Botany Road</u>

- An interim capping layer, "*at 150 mm thick with an identification marker fabric,"* is required to be installed across the land to be dedicated;
- In addition, Areas 6 and 7 "*at the design surface levels as indicated in the Essential Infrastructure DA plans and with any relevant environmental planning instrument and approvals and all structures, footing, redundant underground services, culverts and kerbs removed to that depth*" being 400 mm
- "*The Contractor must remove and Remediate any underground storage tanks from the Contribution Lands that are identified in the Remedial Action Plan and require to be removed from Contribution Lands under the Remediation Action Plan or as otherwise uncovered by the Contractor irrespective of the depth at which those underground storage tanks are located*";

- JBS&G note these works were completed in 2014, as documented in JBS&G (2025b);

- "If there is a risk of pollution migrating from the Contribution Land below the minimum depth and interim cap level, then the Contractor must remediate below that level to remove that risk";
- "The Contractor will engage a site auditor to prepare the Contractor Remediation Statement in accordance with the Remedial Action Plan and anything else required by law, including under the *Contaminated Land Management Act*"; and
- "The Contractor must supply and install a security fence adjacent to the Contributing Lands prior to transfer to the Council to prevent public access on to those parts of the Site which have not been Remediated".

6.2.2 Requirements in Relation to Development Control Plan

As referenced in the overarching RAP (JBS 2013), the Green Square Town Centre Development Control Plan 2012 (GSDCP as amended 2014) issued for the GSTC and surrounds, requires the following with respect to potential site contamination issues and associated remediation/management works:

- That the new development applies the principles of ESD;
- That impacts from development on the environment be reduced;
- That the use of resources in development and by development over its effective life are reduced; and
- The amount of construction and demolition waste, and waste generated in the operation of a development, going to landfill is reduced.

A waste management plan detailing how waste is to be minimised during demolition and construction of a development and over its effective life is to be submitted with the SSDA/DA for each stage of works within the GSTC.

Evaluation of remediation options for Stage 4 and Stage 5, as detailed in the overarching RAP (JBS 2013), includes consideration of the requirements noted above.

In addition, the proposed remediation strategy has been developed with consideration of revised EPA-made or approved guidelines.

6.3 Remediation Scope of Works and Staging

The adopted remedial strategy comprises excavation of fill across the site to reach reduced levels, with retention of fill material within a sub-basement void (borrow pit) within a portion the Stage 4, or capped in-situ. Natural material excavated as part of the development or for the installation of the sub-basement void shall be removed off-site as VENM and beneficially reused in accordance with relevant regulatory requirements to assist with ESD objectives. Fill material surplus to the site storage capacity, or not suitable to remain on site, is proposed to be remediated via excavation and off-site disposal.

The adopted approach is in accordance with the remediation options assessment presented in the overarching RAP (JBS 2013), whereby the retention of impacted fill materials reduces waste generation and resource requirements for the remediation of the site. This remedial approach was previously documented in JBS&G (2023), which was endorsed by the appointed NSW EPA-accredited site auditor and Council.

The remedial and validation activities are expected to be undertaken in stages, with each portion of the site to be clearly defined by a registered surveyor. Construction of the built form and the final landscaping elements will together function as the capping arrangement for each sign-off area. Landscaping is expected to occur as the final step in the development process, following completion of construction activities and the removal of scaffolding.

As the construction process forms a key component of the remediation and validation works, it is recommended that conditions of development consent call for submission of a Section A SAS prior to the issue of the Occupation Certificate (OC) associated with the Main Works SSDA. This requirement should apply to each relevant portion of the site and should not be linked to the Early Works DA, the issue of any Construction Certificate (CC), or the submission of a SAS for the entire site. It is recommended that the Early Works SSDA should, instead (if required), call for interim validation and provision of Site Auditor Advice (IAA) confirming that remedial works have been completed up to a defined stage of the development.

As remediation and development will proceed in stages, it is anticipated that occupation of certain components of the development (e.g. the student accommodation or similar) may occur before completion of remediation and validation in other areas, such as the eastern extent of the site. Accordingly, the conditions of consent should accommodate staged approvals to allow for occupation of completed sections while remediation and development continue elsewhere on the site.

6.3.1 Site Establishment

For each stage of remediation works, the boundary will be defined (via survey) and secured as appropriate to ensure that all safety and environmental controls are implemented, including necessary contractor briefings and inductions for the remediation workforce. A summary of the controls is provided in **Section 11**.

6.3.2 Change in Development Scenario

Should development plans be sustainably modified, and/or additional fill material volumes beyond those assessed in JBS&G (2025c) be proposed to be retained in the sub-basement void within Stage 4, additional assessment will be required to demonstrate that they are environmentally suitable and do not trigger any other regulatory requirements.

6.3.3 Off-site Removal of Natural Material

Subject to validation confirming the removal of impacted overlying fill and the absence of contamination in the underlying natural soil/rock, it is anticipated that the natural clay and shale excavated from the site will meet the definition of VENM under the POEO Act.

This material will be removed off-site and beneficially reused in accordance with applicable regulatory requirements.

6.3.4 Fill Retention / Capping Arrangement

Approximately 33,000 m^3 of fill material is expected to be generated during excavation works associated with the development of Stage 4 and Stage 5 (the site)[20].

All fill material within the site has been characterised (JBS&G 2025c), with the exception of fill at and surrounding sample location S5-W1 Stage 5) requiring further assessment (refer to **Section 3.2**).

A cap and containment remedial strategy is proposed for the site, to be implemented and managed under a Long-term Environmental Management Plan (LTEMP) specific to the site (refer to **Section 7.13**).

Following excavation and contouring activities to reach the site reduced levels, capping arrangements, as outlined in **Section 4** are required to be installed. Where fill is surplus to the site's storage capacity, then it is proposed to be remediated via excavation and off-site disposal (**Section 6.3.5**).

[20] No allowance/estimates have been made for detailed excavations, battering or piling soil. For accurate fill estimate, a quantity surveyor should be engaged.

6.3.5 Off-site Disposal of Fill

All fill material requiring excavation and off-site disposal shall be classified in accordance with EPA (2014) *Waste Classification Guidelines – Part 1: Classifying Waste* requirements, or an appropriate exemption as created under the *Protection of the Environment Operations (Waste) Regulation* 2014.

6.3.6 Material Importation

Where specific-purpose fill materials are required to be imported to the site, such as crushed sandstone or similar for piling pads, drainage aggregate or similar, materials will require to be demonstrated as suitable for importation the site and compliant with relevant regulatory requirements prior to commencement of importation activities. Reference should be made to **Section 7.8.4** for sampling densities and analytes, and compliance with relevant EPA-made or approved guidelines for each material type.

6.3.7 Asbestos Management

Some of the fill materials within the site have been identified to be impacted by asbestos, occurring as fragments of ACM and friable asbestos/asbestos fines (FA/AF).

Excavation and removal of friable asbestos-contaminated soils are required to be conducted by a Class-A asbestos removal licensed contractor. Environmental, health and safety management requirements for the handling of asbestos materials will be documented in an Asbestos Management Plan (AMP) to be prepared based on the requirements provided for asbestos-related works in Safe Work Australia (2020a[21]). This will include preparation of an asbestos register and associated asbestos removal control plan (ARCP) as outlined in Safe Work Australia (2020b[22]).

As per the requirements of Safe Work Australia (2020b), the asbestos removal works during the remediation and materials management of fill from Stages 4 and 5 is required to be supervised by a Licenced Asbestos Assessor (LAA), with appropriate controls and monitoring program to be implemented in accordance with the requirements of SWA (2020a/2020b), the AMP, ARCP and **Sections 10.6.3** and **11.4**.

6.3.8 Movement of Materials

Movement of materials will be required within the site in accordance with a material tracking plan. The tracking system should track the quantity and character of materials from their arrival on site or their derivation point, through temporary storage/stockpile to final placement.

The system should comprise the following elements:

- Definition of Roles and Responsibilities;
- Material quality information;
- Material import/export and movement tracking;
- Material emplacement;
- Documentation required;
- Dealing with non-conformance; and
- Dealing with expected and unexpected finds.

Roles and Responsibilities

The Principal Contractor will be responsible for the following:

[21] How to manage and control asbestos in the work place (Code of Practice), Safe Work Australia, Dated July 2020 (SWA 2020a);
[22] How to safely remove asbestos (Code of Practice), Safe Work Australia, Dated July 2020 (SWA 2020b);

- Implementation and overall management of on-site procedures and protocols defined in the RAP document.
- Responsible for ensuring all subcontractors and consultants employed in the reuse material classification generation, movement and placement are adequately briefed in the requirements of the RAP.
- Ultimate responsibility for the movement and placement of materials intended for reuse.
- Ensuring clear lines of communication are maintained between all relevant responsible parties.
- Liaison with suppliers in sourcing of materials from off-site, whether imported VENM or material under a NSW EPA exemption.
- Ensuring the RAP is applied effectively in conjunction with other relevant documents and in line with the overarching Health, Safety and Environmental Plan and the Asbestos Management Plan to be developed for the site.

The appointed Environmental Consultant will be responsible for the following:

- Liaising with the Principal Contractor with regard to the importation of materials which do not meet the definition of VENM to ensure materials meet the project requirements and to prevent unsuitable materials being inadvertently brought onto the site for use, such that the site cannot be validated as suitable for proposed uses.
- Undertaking inspections when material importation works are being undertaken to confirm that the materials sampled are consistent with those being imported.
- Reviewing materials tracking documents submitted by the Principal Contractor and investigating/resolving any discrepancies.
- Cross-checking of inspection findings with materials tracking sheets.
- Provision of directives (decisions) relating to a proposed and/or placed fill materials suitability.

Material Tracking

The movement of classified materials within the site will be controlled by an appropriately managed Materials Tracking System, as discussed below.

In order to minimise double handling of material, improve cost effectiveness and reduce environmental impacts, support ESD practices, every effort should be made to facilitate the movement of excavated or imported material directly to the area of placement.

It is, however, recognised that this objective may not always be practical and hence the following range of potential material movements is anticipated:

- Stockpile to Placement;
- Import to Emplacement;
- Import to Stockpile;
- Stockpile to Stockpile; and
- Off-site disposal.

Materials Characterisation Form

All material movements within the site relating to the site works will be controlled using Materials Classification Forms (MCF) and Material Tracking Sheets (MTS).

Each MCF outlines procedures for confirming material quality, quantity and summarising existing analytical data. The MCF will be completed by the Principal Contractor and/or the Civil Works Contractor and will include the following:

- A unique MCF document name/number;
- A summary of VENM/ENM reports prepared by JBS&G;
- Materials description; and
- Material reuse suitability summary.

Each MCF will be completed and signed off by the Principal Contractor/Civil Works Contractor based on material characterisation reports prepared by JBS&G. Once completed, the MCF will be incorporated into the Principal Contractor's materials tracking system prior to placement within the site.

An example of the MCF is presented in **Appendix D**.

Materials Tracking Sheet

The MTS is a two-part document, which requires information to be collected at the material source location and one of the three potential destination sites. An example of the MTS is presented in **Appendix D**.

All MTSs will be uniquely referenced and stored as a record of material movements.

This first part (Part A) of the document will record the following data:

- Time and Date
- Truck registration or plant identification;
- Load quality; and
- MCF reference name/number. The MCF will provide details on items such as a source location reference, visual/olfactory observations, materials classification/reuse zone suitability summary.

The document will also be used for materials required for on-site placement or temporarily stored prior to placement, and will be completed at the point of unloading. The sheet will record the following details:

- Items i, ii, iii, as above;
- Visual and olfactory observations; and
- Zone of emplacement.

The final portion of the sheet (Part B) will be completed for materials which cannot be used within the site, including those that are surplus to capacity limits, and are scheduled for off-site disposal in accordance with EPA (2014).

Items above will be recorded initially. The name of the haulage company responsible for transferring the material to the tip site and the details of the receiving site must also be recorded. Prior to leaving the site, the material should have undergone a waste classification in accordance with EPA (2014), and confirmation of this should be acknowledged on the sheet.

Finally, a note should be made of the consignment note number or receipt identification obtained.

The MTS will be reviewed and signed off as completed by the Principal Contractor and or Civil Works Contractor.

Material Placement

The vertical and lateral extents of material will be accurately surveyed (or use of building design drawings) to allow the interrogation of the data set and ensure that reused material loads have been correctly deposited and a record kept of cumulative loads deposited in any particular location.

7. Validation Plan

7.1 Overview

Validation data is required to be collected to verify the effectiveness of the remedial works and document the final site conditions as being suitable for the proposed future mixed land uses.

The following sections establish the data quality objectives (DQOs) to be adopted during validation of the site remedial works.

7.2 State the Problem

To facilitate the development of Stage 4 and Stage 5 (the site), excavation of fill material will be required. In support of Mirvac's waste minimisation and ESD objectives, a cap and containment remediation strategy is proposed. Under this strategy, fill material will either be retained within the sub-basement void (borrow pit) or capped in situ. Where fill is surplus to the site's storage capacity or unsuitable for on-site retention, it is proposed to be remediated through excavation and off-site disposal.

Remediation works must be supported by sufficient validation to demonstrate that ecological and human health risks have been appropriately managed, ensuring the site is suitable for the proposed mixed-use development.

7.3 Identify the Decision

The decisions, which are required to be made for validation of the site are:

- Has off-site disposal of material been completed in accordance with relevant regulatory frameworks?
- Has the sub-basement void (borrow pit) been founded in low transmissive geological units (i.e. underlying Shale)? If not, have engineering controls, as discussed in **Section 7.8.2,** been implemented?
- Have materials handling and tracking been undertaken in accordance with the requirements of the RAP, and relevant regulatory requirements?
- Have physical separation arrangements been installed to meet the remediation objectives, development consent and VPA (2022a/b) requirements?
- Have any unexpected finds (and data gaps) been addressed, and residual fill/soils considered environmentally suitable?
- Has remediation been completed within the site in accordance with the requirements of the RAP?

7.4 Identify Inputs to the Decision?

Inputs to the decisions are:

- Detailed development plans to be provided by Mirvac, appropriate to identify:
    - Consistency of the proposed development with the assumptions of the FRRA (JBS&G 2025c);
    - Areas of accessible soils.
- Field observations in relation to inspection of all excavation bases, walls and stockpiles for odours, sheen, discolouration, and other indicators of potential contamination.
- Soil characterisation/validation analysis data collected from stockpiles and the base and walls of remediation excavations.
- Waste classification and/or material characterisation data obtained during assessment of fill materials/soils/bedrock.

- Materials tracking records.
- Importation assessment criteria.
- Disposal dockets and relevant documents in relation to the appropriate disposal of material to be removed from portions of the GSTC related to site remediation works (landfill dockets, beneficial reuse/recycling dockets).
- Survey data in areas of fill retention and as-built drawings of the sub-basement void (borrow pit).
- Survey data as to the extent and thickness of physical separation arrangements and the extent of environmentally impacted materials.
- Data quality indicators as assessed by quality assurance/quality control (QA/QC).

7.5 Define the Study Boundaries

The site's lateral extent is shown on Figures 1 to 3 and is legally identified as Lot 11 DP 1225135 and Lot 12 DP 1225135, occupying an area of approximately 1.36 ha. The vertical extent of the works will be the maximum elevation where fill will be retained (refer to **Figure 3**).

Validation works will be completed within development timelines, as informed by Mirvac.

7.6 Develop a Decision Rule

Decision rules are provided as follows for each of the decision questions:

- Has off-site disposal of material been completed in accordance with relevant regulatory frameworks?
    - The answer to the decision question will be **Yes** if assessment of field observations, material tracking records, survey data (as required), waste classification assessments and third-party documentation satisfies the requirements of relevant regulatory frameworks and the requirements of the RAP.
    - Otherwise, the decision will be **No**.
- Has the sub-basement void (borrow pit) been founded in low transmissive geological units (i.e. underlying shale)? If not, have engineering controls, as discussed in **Section 7.8.2,** been implemented?
    - The answer to the decision question will be **Yes** if: documentation confirms that the sub-basement void walls/base are constructed using low-permeability lithological units or have been engineered to limit permeability and consistent with the assumptions and findings of the FRRA (2025c); and no significant fissures, cracks, joints, or other potential preferential pathways are present within the engineered structures or geological units
    - Otherwise, the decision will be **No**.
- Have materials handling and tracking been undertaken in accordance with the requirements of the RAP, and relevant regulatory requirements?
    - The answer to the decision will be **Yes** if: appropriate documentation is provided to demonstrate materials tracking, waste classification, off-site disposal and beneficial re-use both within and off-site has been suitably completed in accordance with the requirements of the RAP.
    - Otherwise, the decision will be **No**.
- Have physical separation arrangements been installed to meet the remediation objectives and development consent?

- The answer to the decision question will be **Yes** if: fill materials have been placed within the sub-basement void and/or capped in-situ in accordance with the RAP, which restricts oral and dermal contact and vertical migration of groundwater/surface water accumulation.
- Otherwise, the decision is **No**, and additional remediation and/or assessment will be required.

- Have any unexpected finds and the data gap in **Section 3.2** been addressed, and residual fill/soils considered environmentally suitable?
  - The answer to the decision question will be **Yes** if: the data gap has been assessed in accordance with the requirements of the RAP, and where unexpected finds occur, field observations and analytical results meet the site validation criteria. Any additional impacts must be managed within the sub-basement void, capped in situ, or appropriately disposed of to landfill in accordance with the procedures outlined in the RAP.
  - Otherwise, the decision will be **No**, and additional characterisation/remediation works and/or ongoing management are required.
- Has remediation been completed in accordance with the requirements of the RAP and development consent conditions?
  - The answer to the decision question will be **Yes** if: the answer to each of the above questions is Yes; and a LTEMP has been prepared in accordance with the requirements of **Section 7.1.3**.
  - Otherwise, the decision will be **No**, and additional remediation works are required.

7.7 Specify Limits of Decision Error

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), ANZG (2018[23]), EPA (2017[24] and 2020[25]), appropriate indicators of data quality (DQIs 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 DQIs for completeness, comparability, representativeness, precision and accuracy.

The pre-determined Data Quality Indicators (DQIs) established for the project are discussed below in relation to precision, accuracy, representativeness, comparability, completeness and sensitivity (PARCCS parameters), and are shown in **Table 7.1**.

- **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.

[23] *Australian and New Zealand Guidelines for Fresh and Marine Water Quality*. Australian and New Zealand Government snad Australia and state and territory governments, 2018 (ANZG 2018)
[24] Contaminated Land Management: Guidelines for the NSW Site Auditor Scheme (3rd Edition). NSW Environment Protection Authority 2017 (EPA 2017);
[25] Consultants Reporting on Contaminated Land – Contaminated Land Guidelines. NSW EPA 2020 (EPA 2020).

- **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; ensuring that 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 laboratory methods, including the limits of reporting, in producing reliable data in relation to the adopted criteria.

If any of the DQIs are not met, further assessment of the dataset will be required in order to determine whether the non-conformance has significant effects on the usefulness of the data. Corrective action to correct an adverse impact on the reliability of the dataset may include, but is not limited to, the request of further information from samplers and/or analytical laboratories, downgrading of the quality of the data or alternatively, re-collection of the data.

Table 7-1: Summary of Data Quality Indicators

Data Quality Indicators	Frequency	Data Quality Criteria
Precision		
Split duplicates (intra-laboratory)	1 / 20 samples	<30[2]-<50[1] % RPD, asbestos in agreement.
Blind duplicates (inter-laboratory)	1 / 20 samples	<30[2]-<50[1] % RPD, asbestos in agreement.
Laboratory Duplicates	1 / 20 samples	<30[2]-<50[1] % RPD, asbestos in agreement.
Accuracy		
Surrogate spikes	All organic samples	70-130%
Laboratory control samples	1 per lab batch	70-130%
Matrix spikes	1 per lab batch	70-130%
Trip spike[4]	1 per lab batch	70-130% recovery
Storage blank[4]	1 per lab batch	<LOR
Rinsate sample[4]	1 per sampling event/media	<LOR
Representativeness		
Sampling appropriate for media and analytes	All samples	-[3]
Samples extracted and analysed within holding times.	All samples	Soil: organics (14 days, other than vinyl chloride – 7 days), inorganics (6 months)
Comparability		
Standard operating procedures for sample collection & handling	All Samples	All Samples[3]
Standard analytical methods used for all analyses	All samples extracted and analysed within holding times	NATA-accredited methods for all sample analysis[3]

Data Quality Indicators	Frequency	Data Quality Criteria
Consistent field conditions, sampling staff and laboratory analysis	All Samples	All samples[3]
Limits of reporting appropriate and consistent	All Samples extracted and analysed within holding times	All samples[3]
Completeness		
Sample description and COCs completed and appropriate	All samples	All samples[3]
Appropriate documentation	All samples	All samples[3]
Satisfactory frequency and result for QC samples	-	95% compliance[3]
Data from critical samples is considered valid	-	Critical samples valid[3]
Sensitivity		
Analytical methods and limits of recovery appropriate for media and adopted Site assessment criteria	All samples	LOR<= Site assessment criteria

(1) 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.
(2) An RPD of 30% applied to Metals only. If the RPD between duplicates is greater than the pre-determined data quality indicator, a judgement 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.
(3) A qualitative assessment of compliance with standard procedures and appropriate sample collection methods will be completed during the DQI compliance assessment.
(4) Not required for VENM/ENM importation samples or waste classification for off-site disposal.

7.8 Optimise the Design for Obtaining Data

7.8.1 Segregation of Fill and Natural Material

Where excavation of natural soils is required to facilitate development, following the removal of overlying fill, the exposed natural material will be characterised in accordance with the requirements of the POEO Act. For any material proposed for off-site disposal in addition to meeting the POEO Act requirements, a minimum of 10 samples per 10,000 m³ will be collected, with an additional 1 sample for every subsequent 10,000 m³. Samples will be analysed for 8 heavy metals, TRHs, BTEX, PAHs, OCPs, PCBs, and asbestos (absence/presence).

A VENM classification letter is required to be prepared to facilitate the removal of natural material off-site, with a secondary objective being the demonstration of successful separation of fill and natural materials.

7.8.2 Fill Retention and Sub-Basement Void Construction

A survey will be completed to show the base and upper extent of fill material placed beneath the site capping arrangement and within the sub-basement void (borrow pit). As-built drawings will be obtained, and a photographic record will be completed to verify that the capping arrangements and that the sub-basement void has been installed into low permeability units in accordance with the assumptions and findings of the FRRA (JBS&G 2025c).

Where inspection of the sub-basement void walls indicates significantly different lithological units from those expected, such as the presence of preferential pathways and/or high permeability units (i.e., fill material or BSB units), the assumptions of the risk assessment will no longer remain valid. Contingency measures will require to be implemented to ensure that additional groundwater flux is limited and/or demonstrated as not representing a risk to ecological or human receptors, such as:

- Demonstrate via risk assessment that additional groundwater flux due to the presence of high-permeability units or preferential pathways within the sub-basement void walls does not result in the

risk to sensitive onsite human health or ecological, or downstream ecological receptors within the receiving water body, becoming unacceptable; and/or

- Implement, and demonstrate the success thereof, engineering measures (i.e., the installation of bentonite plugs, low permeability walls, etc.) to reduce the additional groundwater flux into the sub-basement void.

If the sub-basement void is not constructed as identified in the RAP and FRRA, then any additional risk assessment and mitigation measures will need to be reviewed and approved by the site auditor prior to the commencement of such works.

7.8.3 Data Gap

As noted above, additional characterisation of fill material within Stage 5 is required to inform management options. Refer to **Section 3.2** for further details.

7.8.4 Imported Material Characterisation

7.8.4.1 VENM

If importation is required, a source site inspection must be undertaken prior to importation to the site to confirm that the material meets the definition of VENM under the POEO Act 1997.

Commercially quarried materials are not considered waste and therefore do not require classification under the waste classification framework or a VENM certificate. However, appropriate documentation must be obtained to confirm that the materials are naturally excavated (not processed or recycled) and are sourced directly from a quarry.

For non-quarried imported VENM, a minimum of five samples per source site or material type must be collected and analysed for TRH, BTEX, PAHs, heavy metals, OCPs, PCBs, asbestos and any other potential contaminants of concern as may be identified from the source site evaluation.

Confirmation upon arrival at the site that the imported material is consistent with the inspected and sampled material must be supported by photographic evidence.

7.8.4.2 ENM

If Excavated Natural Material (ENM) is proposed to be imported, it must comply with the requirements of *The Excavated Natural Material Order/Exemption* 2014. This must be supported by a source site inspection, with confirmation upon arrival at the site that the imported material is consistent with that inspected and sampled, supported by photographic evidence.

7.8.4.3 Recycled Products

In accordance with current EPA policy, only material that does not represent an environmental or health risk at the receiving site may be considered for resource recovery. Imported materials will only be accepted to the site if they meet the restrictions placed on these materials and meet the definition of:

- VENM as defined in the *Protection of the Environment Operations Act* (1997) Schedule 1.
- Excavated Natural Material (ENM) as defined in the EPA Order/Exemption; or
- Recycle materials as per an EPA Order/Exemption.

All materials imported onto the site are required to be accompanied by appropriate documentation that has been verified by the appointed site contamination (environmental) consultant.

If recycled materials are proposed to be imported under an NSW EPA Resource Recovery Order and Exemption (RRO/RRE), the following sampling and analysis regime is required, following receipt of

compliance certification documentation from the supplier, to evaluate the material's suitability against the site criteria outlined in **Section 7.11**.

A minimum of one sample per 250 m^3, with at least three samples per material type, must be collected and analysed for TRH, BTEX, PAHs, heavy metals, and asbestos.

7.8.5 Off-site Disposal

Where contaminated fill/soil is not suitable for onsite management or is surplus to construction requirements, materials are proposed to be remediated by off-site removal and disposal. Materials shall be classified in accordance with EPA (2014) *Waste Classification Guidelines* or an appropriate exemption as created under the *Protection of the Environment Operations (Waste) Regulation 2014*.

7.9 Soil Sampling Methodology

The soil sampling method shall be determined by the Field Scientist as consistent with the observations of the site sub-surface and appropriate to generate representative samples. The soil sampling method shall be consistent with the data quality indicators in **Section 7.7**. During the collection of soil samples, features such as seepage, discolouration, staining, and odours will be recorded on field notes. Re-usable equipment shall be required to be decontaminated between sampling locations.

7.9.1 Soil Sample Containers

Collected samples shall be immediately transferred to sample containers of appropriate composition (glass jars) fitted with Teflon sealed lids. 500 mL samples shall be additionally collected and placed in new zip lock bags where asbestos analysis is required. Sample labels shall record the sample identification number and date, and time of sampling. Sample containers shall be transferred to a chilled ice box for sample preservation prior to and during shipment to the testing laboratory. A chain-of-custody form shall be completed and forwarded with the samples to the testing laboratory, containing the following information:

- Sample identification.
- Signature of sampler.
- Date of collection.
- Type of sample.
- Number and type of container.
- Inclusive dates of possession; and
- Signature of receiver.

7.9.2 PID Screening

Soil samples will be screened during field works using a Photo-ionisation Detector (PID) to assess the potential presence of VOCs including petroleum hydrocarbons. Samples obtained for PID screening will be placed in a sealed plastic bag for approximately 5 minutes to equilibrate, prior to a PID being attached to the bag. Readings will then be monitored for a period of approximately 30 seconds or until values stabilise and the stable/highest reading will be recorded on the field sample forms. The PID will be calibrated prior to the commencement of field works and then check readings will be completed on a daily basis during the field program using suitable calibration gas. If required, the PID will be re-calibrated during the field program in accordance with the manufacturer's instructions.

7.9.3 Soil Equipment Decontamination

Prior to the commencement of sampling activities, any non-disposable sampling equipment utilised will be cleaned with deionised water/detergent spray and rinsed with potable water. The equipment will 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 will be obtained from non-disposable sampling equipment following completion of each day of field sampling activities, where re-usable equipment is utilised, to determine the effectiveness of the decontamination procedures implemented on re-usable sampling equipment.

7.10 Laboratory Analysis

National Association of Testing Authorities (NATA) accredited laboratories shall be used for all analysis of samples. Appropriate methods and limits of reporting (LORs) are required for comparison to relevant criteria.

7.11 Validation Criteria

The capping arrangements outlined in **Section 4** are required to be implemented. In the event that the land is not proposed to be subject to a LTEMP or the soil is accessible (imported and above the marker layer), the following criteria are proposed, supported by a sampling density consistent with the NSW EPA Sampling Design Guidelines (EPA 2022).

7.11.1 Developable Blocks

Based on the proposed development details and in accordance with the decision process for assessment of urban redevelopment sites (EPA 2017), concentrations of contaminants in media shall be compared against adopted criteria, sourced from the following:

- NEPC (2013): Health-based Investigation Levels (HILs) for residential with minimal opportunity for soil access (HIL- B).
- NEPC (2013): Health Screening Levels (HSLs) for petroleum hydrocarbons considering potential for vapour intrusion, coarse-grained soil for low-high density residential (HSL A & B) land use at 0.0-1.0 m depth.
    - **Note**: NEPC (2013) states that for multi-storey buildings where non-residential uses (e.g., car parking or commercial use) exist in a basement or at ground level, the land use HSL-D (commercial/industrial) criterion may be applied.
- NEPC (2013): Ecological Investigation Levels (EILs), generic and site-specific derived through the added contaminant limits for urban residential/public open spaces.
- NEPC (2013): Ecological Screening Levels (ESLs) for TRH fractions, BTEX and benzo(a)pyrene in coarse-grained soil for urban residential/public open spaces.
- NEPC (2013): Management Limits for TRH, coarse-grained soils for urban residential/public open spaces.
- CRCCare (2017): Ecological Investigation Levels (EIL) for B(a)P in residential land uses; and
- Where there are no NSW EPA-endorsed thresholds the laboratory LOR has been adopted as an initial screening value for the purposes of this assessment.

Application of Soil Assessment Criteria

For soils to be considered as meeting the health/ecological-based assessment criteria (i.e., not posing an unacceptable risk), the following criteria will be adopted:

Either:

- All contaminant concentrations were less than the adopted site assessment criteria,

Or:

- The upper 95% confidence limit on the average concentration for each analyte (calculated for samples collected from consistent soil horizons, stratigraphy or material types) was below the adopted criterion.
- No single analyte concentration exceeded 250% of the adopted criterion; and
- The standard deviation of the results was less than 50% of the criterion.

In addition to the numerical criteria, the following visual observations will also supplement the assessment process:

- No visible asbestos-containing material in addition to laboratory analysis results; and
- Consideration was given to odorous or discoloured soils (caused by contamination).

7.11.2 Road Reserves and Footpaths

Based on the proposed development details and in accordance with the decision process for assessment of urban redevelopment sites (EPA 2017), concentrations of contaminants in media shall be compared against adopted criteria, sourced from the following:

- NEPC (2013): HILs for commercial/industrial land use (HIL- D).
- NEPC (2013): HSLs for petroleum hydrocarbons considering potential for vapour intrusion, coarse-grained soil for commercial/industrial (HSL D) land use at 0.0-1.0 m depth.
- NEPC (2013): EILs generic and site-specific, derived through the added contaminant limits for commercial/industrial spaces.
- NEPC (2013): ESLs for TRH fractions, BTEX and benzo(a)pyrene in coarse-grained soil for urban commercial/industrial spaces.
- NEPC (2013): Management Limits for TRH, coarse-grained soils for commercial/industrial spaces.
- CRCCare (2017): Ecological Investigation Levels (EIL) for B(a)P in commercial/industrial uses; and
- Where there are no NSW EPA-endorsed thresholds, the laboratory LOR has been adopted as an initial screening value for the purposes of this assessment.

Application of Soil Assessment Criteria

For soils to be considered as meeting the health/ecological-based assessment criteria (i.e., not posing an unacceptable risk), the following criteria will be adopted:

Either:

- All contaminant concentrations were less than the adopted site assessment criteria,

Or:

- The upper 95% confidence limit on the average concentration for each analyte (calculated for samples collected from consistent soil horizons, stratigraphy or material types) was below the adopted criterion.
- No single analyte concentration exceeded 250% of the adopted criterion; and
- The standard deviation of the results was less than 50% of the criterion.

In addition to the numerical criteria, the following visual observations will also supplement the assessment process:

- No visible asbestos-containing material in addition to laboratory analysis results; and
- Consideration was given to odorous or discoloured soils (caused by contamination).

7.12 Validation Reporting

As noted in **Section 1** and **Section 6.2.1**, the site is expected to be remediated and developed in a staged manner. Accordingly, staged validation reporting is anticipated. Upon completion of remediation works, stage-specific validation reports will be prepared in general accordance with EPA (2017 and 2020) guidelines, documenting that the works have been carried out in accordance with the RAP and confirming the suitability of each stage for its intended use. Depending on the construction sequencing and consent conditions, validation may be presented in interim validation reports.

This report will contain information including:

- Details of the area of the site, which is subject to the validation assessment, including the site history, site condition, surroundings and CSM.
- Details of the remediation works conducted.
- Information demonstrating that the objectives of the RAP have been achieved, in particular, the validation sample results and assessment of the data against both the pre-defined DQO and the remediation acceptance (validation) criteria and documentation that the borrow pit has been constructed in accordance with the assumption of the FRRA (JBS&G 2025c).
- Clear statement that the remedial/validation works have been completed in accordance with the requirements of the RAP.
- Information demonstrating compliance with appropriate regulations and guidelines.
- Any variations to the strategy undertaken during the implementation of the remedial works.
- Results of all environmental monitoring undertaken during the course of the remedial works.
- Details of any environmental incidents occurring during the course of the remedial works and the actions undertaken in response to these incidents.
- Verification of regulatory compliance.
- Details of waste classification, materials tracking (**Section 6.3.8**) and off-site disposal, including landfill dockets.
- A clear statement of the suitability of the site (or portions thereof) which is the subject of the validation report, for the proposed use(s).
- Material tracking records which demonstrate that materials imported onsite and disposed of offsite have been moved in accordance with relevant regulatory requirements; and
- Other information as appropriate, including details of LTEMP that will apply to the part of the site that is the subject of the validation report.

The validation report will serve to document the remediation works for future reference.

7.13 Long Term Environmental Management Plan (LTEMP)

Where required, LTEMPs will be prepared to outline the measures necessary to ensure the land remains suitable for its intended use.

Land to be dedicated to Council will be subject to an LTEMP where it is external to the basement. It is also anticipated that the majority of Site 8B, Site 8D, and Site 19B (**Figure 3**) will be similarly encumbered, unless detailed structural plan demonstrates that residual fill is not accessible and that any future disturbance would require planning consent.

Each LTEMP will include the following components:

- A statement of objectives.
- Identification of residual contamination, including type, location, and site plans.
- Summary of management measures already implemented.
- Controls to limit exposure to contamination.
- Roles and responsibilities for implementation.
- Timeframes for controls and monitoring.
- Monitoring and reporting requirements, including:
    - Locations, depths, and frequency.
    - Assessment criteria and data review process.
    - Duration of monitoring.
    - Roles of regulatory authorities.
    - Soil and groundwater integration.
    - Health and safety measures.
    - Review and audit program.
- Corrective actions for non-compliance.
- Confirmation that measures are practical, enforceable, and supported by consent conditions.

8. Contingency Plan

A review of the contamination-related aspects of the proposed works within the site has identified several potential risks. These are outlined in the following sections and have informed the development of contingencies to ensure the objectives of this RAP are achieved.

8.1 Additional Impacted Fill/Soil Material

Where additional characterisation identifies fill/soil impact, remediation or management will be required in accordance with the RAP as outlined below:

- Where impacted material cannot be capped and retained onsite, it must be excavated and disposed of off-site as per **Section 7.8.5**. The excavations must then be validated as outlined in **Section 7.11**.
- Where impacted material is to be retained on site, containment must be completed and validated as detailed in **Section 4** following consultation with the Site Auditor.

8.2 Emissions / Pollution

Due to the nature of the activities and type of contaminants identified within the site, there is a potential for complaints to be received from members of the public and/or occupants of surrounding properties relating to environmental emissions associated with remedial works, including:

- Odour emissions arising from the handling of malodorous soil;
- Noise and vibration arising from remedial excavations or other works required for remediation (i.e. piling); and/or
- Dust emissions arising from remedial excavation, material handling and placement.

Monitoring of potential environmental emissions from the site shall be undertaken during the remedial works as detailed in **Sections 10.4** to **10.6** and appropriate actions taken to further control emissions following receipt of a complaint. The procedures will be specific to remedial works and not to construction works. The procedures shall contain provisions for contingency actions where excessive emissions occur, however, it is anticipated that one or more of the following actions will be considered:

- Increased application of odour screening/masking chemicals on odorous materials;
- Disturbance of soils during meteorologically favourable periods only; and/or
- Covering of impacted soils; and/or
- Implementation of alternate construction methods.

8.3 Prevention of Cross Contamination

As noted above, potential remains for remedial works to be undertaken in a staged manner . As such, to prevent recontamination of a validated area from un-remediated areas due to machinery or personnel movement, the following should be implemented:

- Establish Physical Barriers
    - Use plastic sheeting, geofabric or similar (I.e. cover fill not being remediated), and controlled access zones to separate validated and un-remediated areas.
        - Alternative, fill can be capped with natural soils, however, this would just increase the volume of fill requiring disposal to landfill (i.e. not recommended but a viable option).

- If bonded ACM fragments are identified on the site's ground surface, these should be removed from the site ground surface and disposed of at a facility lawfully able to receive the material.
- Clearly mark boundaries with signage indicating "Validated Area – No Unauthorised Entry."

- Control Personnel Movement
  - Designate specific entry/exit points for personnel and equipment.
- Decontaminate Equipment and Tools
  - Clean machinery, tools, and materials before bringing them into the validated area.
  - Establish designated cleaning stations near entry points.
- Monitor and Inspect Regularly
  - Conduct routine inspections of barriers, personnel compliance, and cleaning stations. JBS&G to confirm the validated surface is free of foreign inclusion prior to VENM export.
- Implement a Communication Plan
  - Ensure all personnel understand and adhere to contamination control measures.
  - Provide ongoing training on cross-contamination risks and mitigation procedures.

8.4 Borrow Pit Engineering Controls

As outlined in **Section 7.8.2**, if conditions within the sub-basement void differ from the assumptions in the FRRA (JBS&G, 2025c), such as the presence of high-permeability geological units or preferential pathways, engineering controls must be implemented to maintain alignment with the risk assessment assumptions. These controls may include the installation of low-permeability barriers (e.g., bentonite plugs or engineered walls) to reduce groundwater flux and mitigate potential risks to human health or ecological receptors.

Where such controls are not feasible or practical, a reassessment of the fill retention strategy will be required. This must be documented through a formal addendum to the FRRA, including updated conceptual site models and risk assessments. Any deviation from the original design assumptions or mitigation measures must be reviewed and approved by the Site Auditor prior to implementation.

8.5 Interim Capping Arrangement

As discussed above, two SSDAs are being lodged for the site, one for Early Works and another for the Main Works.

The Early Works SSDA seeks approval for the following:

- Site establishment works;
- Erosion and sediment control;
- Tree removal;
- Bulk excavation to establish future basement levels;
- Basement retention and piled shoring works;
- Infrastructure services coordination and augmentation; and
- Ancillary works.

This SSDA also seeks the Torrens title subdivision of the site.

The Main Works SSDA will address basement construction, above-ground construction, and landscaping. Due to the proposed cap-and-containment remediation strategy, final remediation and validation outcomes may only be achievable once the built form is complete and final landscaping is established.

Accordingly, an interim capping arrangement is outlined in **Section 4.1.2** should the consent condition call for validation as part of the Early Works.

9. Unexpected Finds Protocol

The possibility exists for hazards to be present at the site other than those identified and expected based on previous investigation.

Environmental sampling is based on chemical analytes identified as a potential concern during a documented process of reviewing historical site activities. However, ground conditions between sampling points may vary, and further hazards may arise from unexpected sources and/or in unexpected locations. The nature of any additional hazards which may be present at the site are generally detectable through visual or olfactory means, for example:

- Areas of previously unidentified ACM on the ground surface or within fill material.
- Uncontrolled filling, such as in eroded drainage lines.
- Drums or underground tanks.
- Chemical bottles; and
- Odorous or unusual coloured soils.

As a precautionary measure to ensure the protection of the workforce and the surrounding community, if any of the abovementioned substances are identified (or any other unexpected potentially hazardous substance), the procedure summarised in **Flowchart 9.1** and detailed in the following sections is to be followed.

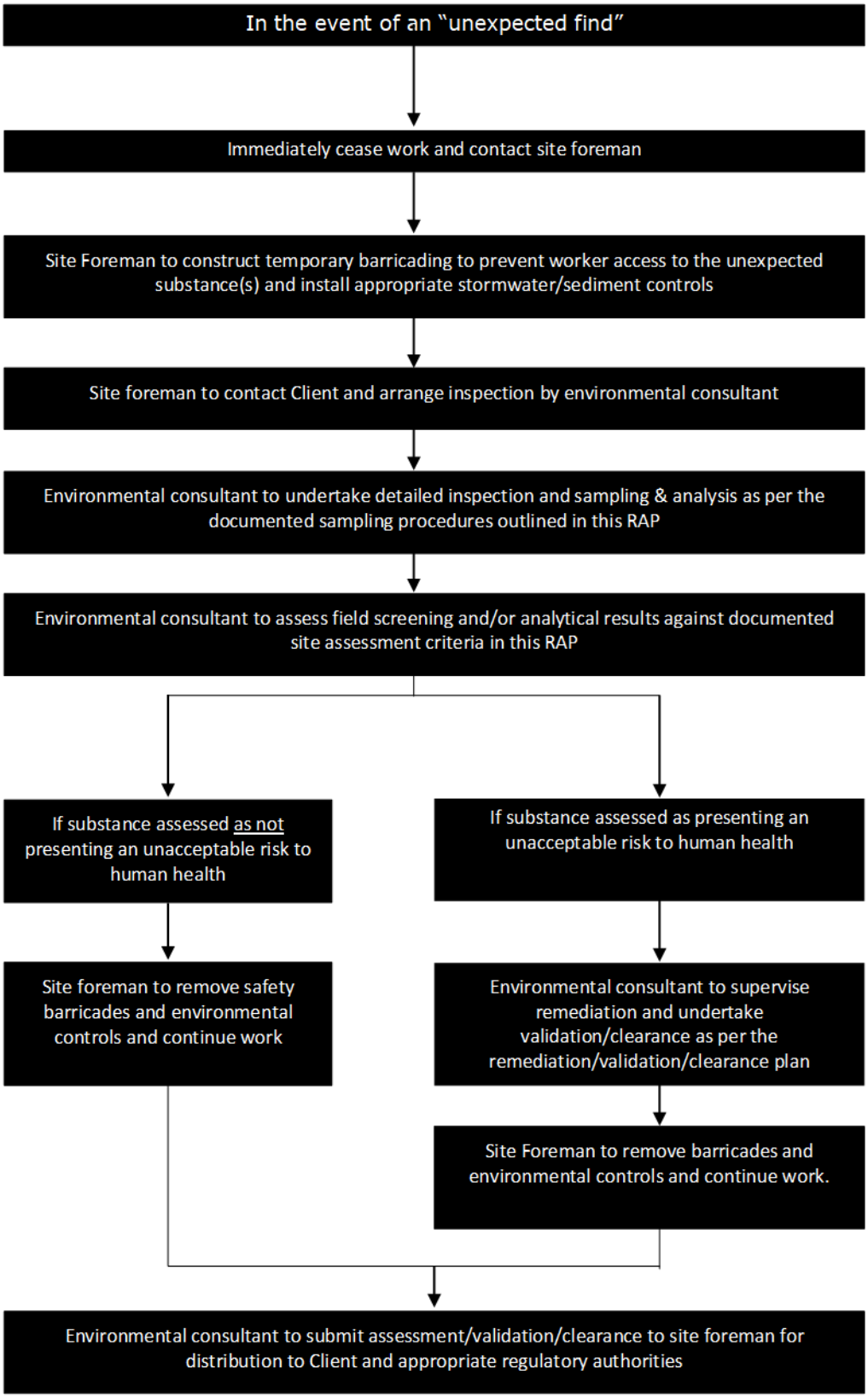
An enlarged version of the unexpected finds protocol, suitable for use on site, should be posted in the Site Office and referred to during the Site-Specific Induction by the Principal Contractor.

The sampling strategy for each 'unexpected find' shall be designed by a suitably qualified environmental consultant, in accordance with guidelines made or endorsed by the EPA. The strategy will, however, be aimed at determining the nature of the substance – that is, is it hazardous and, if so, is it at concentrations which pose an unacceptable risk to human health or the environment.

The sampling frequency of the identified substance/materials shall meet the requirements of the NSW EPA (2022) guidelines.

The criteria shall be determined by the appointed site contamination (environmental) consultant, with the subject material to at least meet the criteria nominated in **Section 7.11**, and additional criteria (as necessary) obtained from published national guidance documents.

Flowchart 9.1



10. Site Management Plan

This section contains procedures and requirements that are to be implemented as a minimum requirement during the remedial works at the site.

10.1 Contact Persons

Contact details for key personnel involved in remediation and validation works are summarised in **Table 10.1.**

Table 10-1: Contact Details

Client's Supervisor/Manager	Details
Name	TBA
Company	TBA
Address	TBA
Contact Phone	TBA
Remediation Contractor	Details
Name	TBA
Company	TBA
Contact Phone	TBA
Environmental Consultant	Details
Name	Chris Dagger
Company	JBS&G Australia Pty Ltd
Address	Level 8, 179 Elizabeth St, Sydney, NSW
Contact Phone	02 8245 0300

10.2 Hours of Operation

It is understood that the hours of operation for remedial works will be conducted in accordance with the recommended site hours suggested by the EPA 2009[26], however, works hours will be subject to the requirements of any development approval conditions provided by the consent authority.

Typical hours of operation for remedial works are:

- Monday to Friday: 7:30am to 5:30pm. Pre-start meetings permitted from 7am.
- Saturday: 7 am to 3:30 pm.
- Sunday and public holidays: No work permitted unless approved.

Emergency work is permitted to be completed outside of these hours.

10.3 Soil and Water Management

All works shall be conducted in general accordance with Landcom (2004)[27] guidance (the Blue Book), which outlines the general requirements for the preparation of a soil and water management plan.

[26] *Interim Construction Noise Guideline.* Department of Environment & Climate Change NSW. DECC 2009/265. July 2009 (EPA 2009).
[27] *Managing Urban Stormwater: Soils and Construction*, Landcom 4th Edition, March 2004 (Landcom 2004).

All remedial works shall be conducted in accordance with a soil and water management plan, which is to be kept onsite and made available to council officers on request. All erosion and sediment measures must be maintained in a functional condition through the remediation works by the remedial contractor.

To prevent the migration of impacted soil off-site, silt fences shall be constructed at the down-gradient site boundaries by the remedial contractor. Any material which is collected behind the sediment control structures shall be removed off-site to a licensed waste facility after waste classification.

In a storm or extended rainfall event, the structures located on site for sediment control shall be monitored and replaced or altered, if necessary, by the contractor. Collected material shall be managed in accordance with remediation works by the contractor.

10.3.1 Stockpiles

All materials stockpiled on-site will be managed by the remedial contractor. Unique numbers will be provided for each stockpile, the source of the stockpile, its volume, material characterisation and its location onsite (via GPS) recorded.

The following procedures will be implemented by the remedial contractor:

- No stockpiles of soil or other materials shall be placed on footpaths or nature strips unless prior Council approval has been obtained.
- All stockpiles of soil or other materials shall be placed away from drainage lines, gutters or stormwater pits or inlets.
- All stockpiles of soil or other materials likely to generate dust or odours shall be covered (where practical); and
- All stockpiles of contaminated soil shall be placed on plastic sheeting to limit cross contamination of the underlying soils and stored in a secure area.

10.3.2 Site Access

During remediation works, temporary fencing will be installed, which will restrict access to remedial areas on the site. Only authorised persons will be permitted to enter the remedial areas.

Vehicle access to the site shall be stabilised to prevent the tracking of materials from the site, and the adjoining driveway/access point to the road will be swept or cleaned on an as-needed basis. Any collected materials shall be treated as potentially contaminated and handled as per the classification/reuse/disposal requirements outlined in this RAP.

10.3.3 Excavation Pump-out

Any excavation pump-out water shall be sampled by the environmental consultant for analysis for total suspended solid concentrations, turbidity, pH and the identified contaminants of concern prior to release to stormwater with appropriate documentation indicating that the discharged water is compliant with the ANZG (2018) default guideline values (DGVs). If not, the water may be disposed of off-site to a licensed facility lawfully able to accept the waste.

10.4 Noise

Remediation work shall not give rise to 'offensive noise' as defined in the POEO Act 1997. All equipment and machinery associated with the remediation work shall be operated by the Contractor in accordance with the *POEO Act 1997 and the Noise Control Regulations 2000*.

All machinery and equipment used on site will be in good working order and fitted with appropriate silencers when necessary.

Louder equipment shall be located away from noise sensitive areas. Works shall be staged as required to avoid concurrent operation of multiple pieces of noisy equipment. Works outside of normal hours of operation shall be avoided.

10.5 Vibration

The use of plant and machinery shall not cause unacceptable vibrations to be felt or capable of being measured at neighbouring premises.

10.6 Air Quality

During remedial works, dust emissions and any odours will be confined within the site boundary.

10.6.1 Dust Control

During the remedial works, as necessary, excavation areas will be wetted down using a water spray to minimise the potential for dust to be generated by the remedial contractor.

Dust shall also be controlled by ensuring vehicles leave via the designated (stabilised) site access and all equipment has dust suppressors fitted by the remedial contractor.

During all remedial works, dust screens/fences will be erected around the perimeter of the site by the remedial contractor. Where significant fugitive emissions are observed from specific site areas, these areas shall be wetted and/or covered by the remedial contractor.

Meteorological conditions will be monitored by the environmental consultant and remedial contractor. Remedial work will be stopped or modified where meteorological conditions are adverse (i.e., dry conditions and strong winds towards sensitive receptors).

Plant and vehicles should limit their speed when working within asbestos exclusion zones and only traverse wetted haul roads.

10.6.2 Odour

Given the nature of some of the material being excavated at the site, there may be some odour issues at the site boundaries (albeit very limited).

If odours are detectable at the site boundaries, then appropriate actions will be taken to reduce the odours, which may include: increasing the amount of covering of excavations/stockpiles; mist sprays; odour suppressants; or maintenance of equipment.

Records of volatile emissions and odours shall be kept by the remediation manager. Equipment and machinery will be adequately maintained to minimise exhaust emissions. No materials shall be burnt on the site.

10.6.3 Asbestos

During the remediation works, perimeter asbestos in air monitoring will be conducted at each applicable remediation works area boundary when soil with asbestos is being disturbed. Air monitoring will be conducted on a daily basis at relevant locations whilst disturbance of asbestos-impacted areas takes place.

Air monitoring will be conducted during any ground disturbance activities within impacted soil to verify that implementation of appropriate control measures have been successful at managing the risk of airborne fibre generation. Air monitoring will be undertaken in accordance with the requirements of the National Occupational Health and Safety Commission (NOHSC) Asbestos Code of Practice and Guidance Notes, in particular the Guidance note for the estimation of airborne asbestos dust [NOHSC 3002:2005].

10.7 Groundwater

Dewatering associated with construction works will require approval from the NSW DCCEEW. This approval must be obtained prior to any groundwater extraction. Temporary dewatering is expected to be necessary only during excavation for the sub-basement void and basement structure construction. Appropriate personal protective equipment (PPE) must be worn to minimise dermal contact. Any water discharged must be demonstrated to be environmentally suitable, in accordance with a dewatering management plan submitted as part of the dewatering licence application.

Groundwater remediation is not required as discussed in **Sections 3.2** and **5.**

10.8 Material Transport

Trucks will be loaded in a designated area in a manner designed to minimise noise, vibrations and odour to adjoining premises. The transportation contractor shall ensure that there is no material tracked out onto public roads and that each load is securely covered. Removal and deliveries of soils and materials, equipment and machinery will only occur during the hours of remediation works unless specific approvals are obtained.

All appropriate road rules shall be observed, and state roads will be selected as far as practicable over local roads when deciding on the transport route to the off-site material disposal location. In addition, the transport contractor will be required to be appropriately licensed to transport and dispose of the waste identified as requiring removal from the site.

Movement of asbestos-impacted material is required in accordance with the NSW EPA's Integrated Waste Tracking Solution (IWTS), previously known as WasteLocate.

10.9 Hazardous Materials

Hazardous and/or intractable wastes arising from the remediation work (if any) shall be removed and disposed of in accordance with the requirements of NSW EPA, SafeWork NSW and the relevant regulations by the Contractor.

Any hazardous waste will be transported by an NSW EPA-licensed transporter.

10.10 Site Signage and Contact Numbers

A sign shall be displayed adjacent to the site access throughout the duration of the works with the contact details of the remediation contractor and project manager.

10.11 Community Relations

Owners and/or occupants of premises adjoining the site will be notified at least seven days prior to the commencement of remedial works.

Any community concerns or queries should be directed to the site manager. The site manager will notify the site owner of any community queries or concerns so that the site owner will direct an appropriate person to address the community query or concern.

10.12 Site Security

The remedial areas shall be secured against unauthorised access by means of an appropriate fence.

10.13 Occupational Health and Safety

It is the employer's responsibility to ensure that all site remediation works comply with all Work Health and Safety and Construction Safety Regulations of NSW SafeWork. A preliminary Health and Safety Plan is provided in **Section 11.**

11. Health and Safety

This preliminary health and safety plan contains procedures and requirements that are to be implemented as a minimum during the remediation works.

The objectives of the health and safety plan are:

- To apply standard procedures that reduce risks resulting from the above works.
- To ensure all employees are provided with appropriate training, equipment and support to consistently perform their duties in a safe manner.
- To have procedures to protect other site workers and the general public.

These objectives will be achieved by:

- Assignment of responsibilities.
- An evaluation of hazards.
- Establishment of personal protection standards and mandatory safety practices and procedures; and
- Provision for contingencies that may arise while operations are being conducted at the site.

This health and safety plan does not provide safety information specific to construction and other demolition or excavation activities carried out by contractors, such as the safe operation, maintenance and inspection of plant, etc. Contractors will be required to prepare their own Safe Work Method Statements for their work activities. All parties working on the site shall comply with all applicable Health and Safety legislation, regulations, codes and guidelines.

11.1 Responsibilities

Remediation Supervisor

The remediation supervisor is responsible for ensuring that the work is carried out in accordance with the health and safety plan. This will include:

- Ensuring a copy of the health and safety plan is available at the site during the remediation/validation activities.
- Ensuring all works are undertaken in accordance with appropriate regulations and standards.
- Confirming that individuals are competent in performing allotted tasks.
- Liaison with the contractor representatives, as appropriate, regarding safety matters; and
- Investigation and reporting of incidents and accidents.

Every individual worker is responsible for conducting their allocated tasks in a safe manner and in accordance with their training and experience. They must give due consideration to the safety of all others in their proximity and cooperate in matters of health and safety. All workers must leave their work areas in such a condition that the location will not be hazardous to others at any time.

11.2 Hazards

The known or potential hazards associated with the work activities described in **Section 6** are listed below:

- Chemical hazards associated with the presence of potentially contaminated soil.
- Inhalation hazards associated with the potential presence of friable asbestos.
- Physical hazards, including:

- work in or near excavations.
- operating machinery.
- heat stress and UV exposure.
- underground (particularly with the presence of UST(s)) or overhead services.
- manual handling; and
- noise.

In the event of the discovery of any condition that would suggest the existence of a situation more hazardous than anticipated, or of any new hazard that could potentially cause serious harm to personnel or the environment, work will be suspended until the Project Manager has been notified and appropriate instructions have been provided to field personnel.

11.3 Chemical Hazards

When working with potentially contaminated materials in general, care must be taken to ensure that the contamination is not introduced to the worker via ingestion, inhalation or absorption. PPE and decontamination requirements related to the remedial works are summarised in **Section 11.6**.

11.4 Asbestos Hazards

Remediation works involving the handling of non-bonded (friable) asbestos-impacted soils at the site, are required to be undertaken by a suitably licensed Asbestos Removalist contractor (Class A). Asbestos removal works should be completed in compliance with the relevant SafeWork NSW requirements, including SafeWork notification prior to the removal of asbestos, and under the supervision of a Licensed Asbestos Assessor (LAA).

11.5 Physical Hazards

Operating Machinery

Heavy plant and equipment operating in the vicinity of field personnel presents a risk of physical injury. Personnel should be cognisant of their position in relation to operating machinery at all times.

Never walk behind or to the side of any operating equipment without the operator's knowledge. Do not assume that the operator knows your position. Personnel should stay at least 1 m from the operational area of heavy equipment and should not stand directly below any load or piece of equipment (e.g. backhoes).

Work in or Near Excavations

All excavations shall be shored, sloped or otherwise constructed so as to minimise the potential for collapse.

Cuts and Abrasions

The manual work associated with the remediation works gives rise to the risk of cuts and abrasions to personnel working in the area. As well as the direct consequences of any cut or abrasion, such injuries can lead to the possibility of exposure to contaminants through the wound as well as diseases such as tetanus. To minimise the risk of direct or indirect injury, personnel will wear the personal protective equipment described in **Section 11.6**.

Heat Stress and UV Exposure

Site personnel may experience heat stress due to a combination of elevated ambient temperatures and the concurrent use of personal protection equipment; this depends in part on the type of work and the time of year.

In addition to heat stress, overexposure to UV radiation in sunlight can result in sunburn to exposed skin. The use of a high protection sunscreen (SPF15 or greater) on all exposed skin is recommended. Hats (including hard hats in specified areas) will also provide additional sun protection during the peak (i.e. 10:00 am to 3:00 PM) sun period. Sunglasses should be worn (where appropriate) to protect eyes from effects of UV exposure.

Underground Services

There is the potential for underground services (electricity, natural gas lines, water, telephone, sewer, and stormwater) to be present beneath the work area. The remediation contractor shall ensure that appropriate procedures will be taken to minimise the risk associated with excavation near services.

Aboveground Electrical Hazards

All electrical plant and equipment must comply with the requirements of Australian Standard AS 3000. Hand-held portable tools shall comply with AS/NZS 3160 Hand-held Portable Electric Tools and shall be double insulated. Cord-connected portable hand lamps shall comply with AS/NZS 3118. A Residual Current Device (RCD) shall protect plug-in portable equipment, which is connected to a supply above Extra Low Voltage - 12-24volts (including equipment supplied from a generator or welding set). RCD protection shall be provided during use of portable electrical equipment at all times while the equipment is connected to a power supply above Extra Low Voltage, irrespective of whether power is switched ON or OFF. RCD's shall comply with AS 3190 and shall be type II units, rated to trip at or below 30 milliamps within 40 milliseconds.

All equipment shall be operated in compliance with the NSW WorkCover (2006) Work Near Overhead Power Lines: Code of Practice. Minimum approach distances for all equipment should exceed:

- 3.0 m for nominal phase to phase ac voltage lines up to 132,000 Volts.
- 6.0 m for 132 000 to 330 000 Volts.
- 8.0 m for greater than 330 000 Volts; and
- 3.0 m for nominal pole to earth dc voltage up to and including 1500 +/- volts.

Manual Handling

When lifting or handling heavy objects, use correct lifting techniques, bending the knees not the back. If the item to be lifted is too heavy or awkward for one person to lift, seek assistance from other company employees or use mechanical help.

Noise

Long-term exposure to high levels of noise is unlikely. However, operating machinery may cause significant noise exposures for short periods. Earplugs or earmuffs should be worn in any situation where noise levels make normal conversation difficult.

11.6 Personal Protective Equipment

All workers who may come into direct contact with contaminated soil will wear the following PPE:

- Overalls or long sleeved collared shirt.
- Heavy duty outer gloves (eg. leather) where there is a risk of cuts or abrasions, otherwise PVC outer gloves if in direct contact with contaminated soil.
- Steel capped boots.
- Safety glasses.
- High visibility vest or jacket; and
- Hard hat.

In addition to the above, the following PPE will be worn by the personnel responsible for handling of fill materials within the extent of the site where asbestos-impacted soils may be encountered:

- During any work in which direct contact of personnel to asbestos-impacted soils may occur and prior to final clearance, overalls, gloves, rubber soled work shoes or gum boots should be worn by personnel involved in the work. These shoes will remain inside the work area for the duration of the work.
- Approved respirators shall be worn during direct handling of asbestos-impacted soils at all times to provide respiratory protection. The minimum protection is an approved, properly fitting P2 disposable respirator or half faced respirator fitted with a particulate cartridge. However, it is expected that the remediation contractor will conduct a risk assessment in relation to the works and should consider the requirement for positive pressure, hood or full-face powered air-purifying respirator fitted with an approved Class M filter.
- The remediation contractor shall supply and keep in good order two complete sets of protective clothing and respirators for authorised inspection personnel. These will remain the property of the contractor at the end of the contract.
- Respirators should be issued for personal use only and shall be kept in a clean condition. Alcohol based antiseptic swabs should be made available for the cleaning of respirators.
- Any respirator defects should be reported for subsequent repair. They should be maintained in a clean and safe working condition.
- Employees must receive instruction in the correct method of using the respirator and on the importance of correct facial fit and maintenance. No person with a beard shall be allowed within the asbestos work area except using an approved positive pressure continuous airflow hood.

In the event that the PPE detailed above differs from that required by the Class A licensed contractor, the requirements of the licensed contractor will prevail.

Vehicle, Plant and Equipment

All equipment, including personal protective equipment, will be washed or otherwise cleaned to ensure that contaminated soil, water or dust is removed before it leaves the site. All plant and equipment will have their outer bodies thoroughly cleaned of soil and sediment before moving off the site.

11.7 Emergency Response

The remediation contractor will be responsible for preparing an emergency response plan, which will provide details on appropriate action and evacuation procedures in the event of an emergency.

In the event of an emergency arising on the site, appropriate action should be taken. Site evacuation procedures should be followed, as necessary.

In the event of an accident: evaluate the seriousness of the injury, and contact emergency services, if necessary; provide first aid, as appropriate, and if safe to do so, evacuate the injured person via the Decontamination Zone; make the area as safe as possible without jeopardising safety.

If a serious accident occurs, do not disturb the scene, except to make safe and prevent further injury or damage, and keep all unauthorised people out, and report all accidents to the Project Manager.

12. Conclusions

Overall, it is considered that the proposed actions outlined in this RAP conform to the requirements of the Contaminated Sites Guidelines for the NSW Site Auditor Scheme (3rd Edition) (EPA 2017) because they are: technically feasible; environmentally justifiable; and consistent with relevant laws, policies and guidelines endorsed by NSW EPA.

Subject to the successful implementation of the measures detailed in this RAP and subject to the limitations in **Section 13**, it is considered that the risks posed by the identified impacts at the site can be appropriately addressed and that the site can be made suitable for the proposed land-use associated with the proposed development.

13. 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 report has been prepared specifically for the client for the purposes of the commission, and no warranties, express or implied, are offered to any third parties and no liability will be accepted for use or interpretation of this report by any third party.

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. This report should not be amended in any way without prior approval by JBS&G, or reproduced other than in full including all attachments as originally provided to the client by JBS&G.

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 or agreed scope of work.

Limited sampling and laboratory analyses were undertaken as part of the investigations undertaken, as described herein. 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 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

Figure 1 Site Location

Figure 2 Site Layout

Figure 3 Proposed Site Layout

Figure 4 Soil Sample Locations

Figure 5 Groundwater Monitoring Well Locations

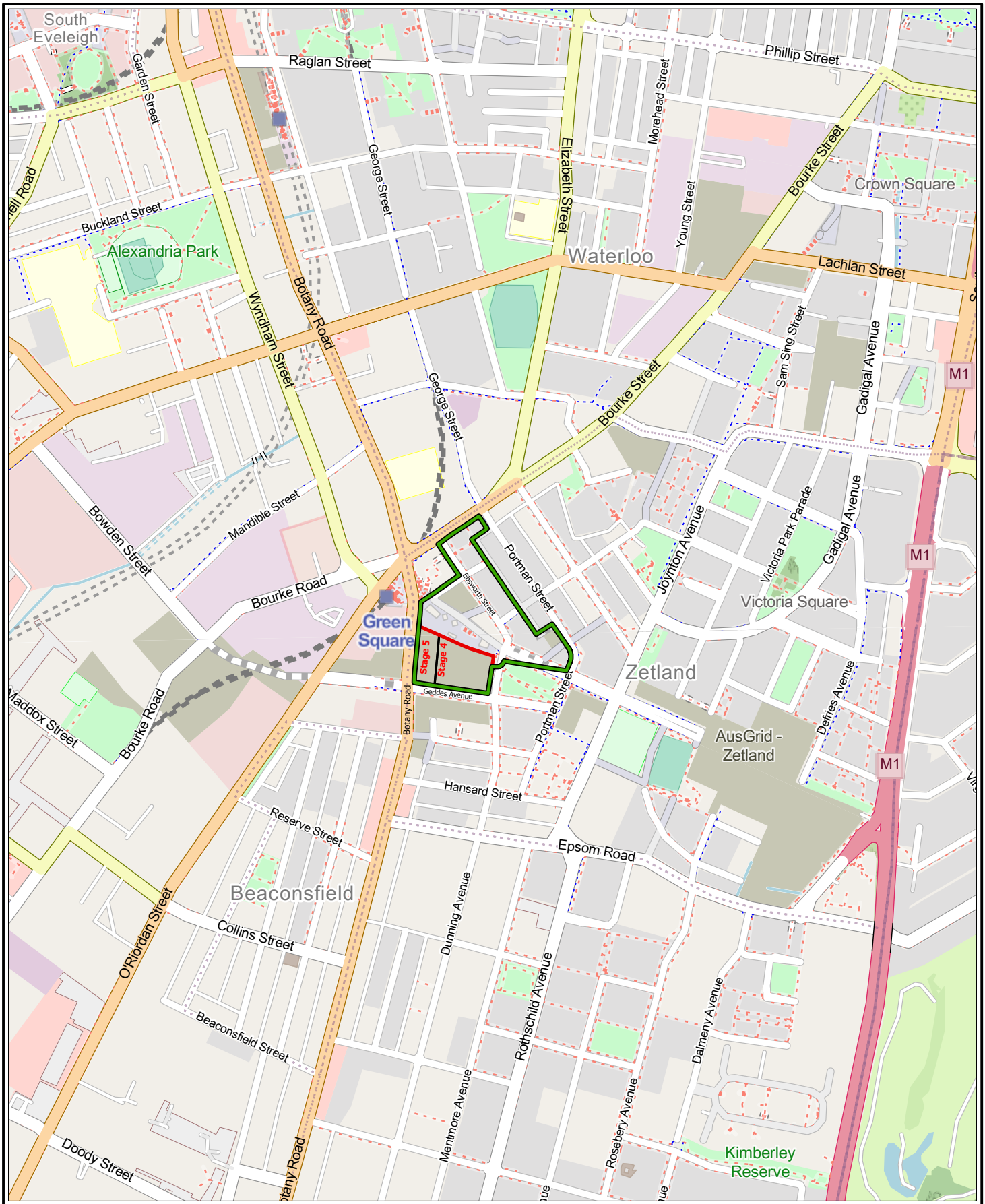
Figure 6 Data Gap Assessment

Figure 7 Depth of Fill

Figure 8 Cross Sections

Figure 9A Capping Requirements

Figure 9B Capping Requirements



Legend

- The Site - Stages 4 & 5
- Green Square Town Centre

Scale 1:10,000

0 75 150

metres

Coord. Sys. GDA 1994 MGA Zone 56

Job No: 69239

Client: Mirvac Green Square Pty Ltd

Version: R04 Rev 1 | Date 23/09/2025

Drawn By: RF | Checked By: CD/NC

Green Square, NSW

SITE LOCATION

FIGURE 1

JBS&G

File Name: 69329_GreenSquare_SSDA_DevelopableArea_R04_Rev1
Reference:



Legend

- The Site - Stages 4 & 5
- Green Square Town Centre
- NSW Cadastre
- Development Blocks

Historic Features

- Former Council Depot Site
- Former Incinerator Site
- Former Police Site
- Former Police Helipad
- Former Quarry
- Former Dam
- Former Stolen Car Compound

Scale 1:1,750 — 0 10 20 metres

Coord. Sys. GDA 1994 MGA Zone 56

Job No: 69239

Client: Mirvac Green Square Pty Ltd

Version: R04 Rev 1 | Date 24/09/2025

Drawn By: RF | Checked By: CD/NC

Green Square, NSW

SITE LAYOUT

FIGURE 2

JBS&G

File Name: 69329_GreenSquare_SSDA_DevelopableArea_R04_Rev1
Reference:



Legend

- The Site - Stages 4 & 5
- Green Square Town Centre
- NSW Cadastre
- Development Blocks
- Basement Footprint
- Borrow Pit
- Road Reserve
- Woolpack Road
- Paved Area
- Green Square Planning Agreement - Contribution Land (Lands to be dedicated to Council)
  - Area 4a
  - Area 4b
  - Area 6
  - Area 7

NOTE: Proposed Capping Arrangements
Area 4a & 4b = 850mm
Area 6 & 7 = 400mm
Development Blocks - Slab / Hardstand
Paved Area (Between Site 8a & 8b) = Hardstand

NOTE: Bulk Excavation Depths - Basement Configuration
Basement 1 - BEL (11.60 RL) - Underlays Site 19B
Basement 2 - BEL (7.78 RL) - Underlays Site 19A & WoolpackStreet
Basement 3 - BEL (3.66 RL) - Underlays Site 8A, Hinchcliffe & Woolpack Street
Basement 3 - BEL (4.16 RL) - Underlays Site 8C, Woolpack & Barker Street (overlays borrow pit)
Borrow Pit - BEL (From 4.16 RL to -3.16 RL [Depth 7.2m])

Scale 1:1,250 — 0 10 20 metres

Coord. Sys. GDA 1994 MGA Zone 56

Job No: 69239

Client: Mirvac Green Square Pty Ltd

Version: R04 Rev 1 | Date 24/09/2025

Drawn By: RF | Checked By: CD/NC

Green Square, NSW

PROPOSED SITE LAYOUT

FIGURE 3

JBS&G

File Name: 69329_GreenSquare_SSDA_DevelopableArea_R04_Rev1
Reference:



Legend

- The SIte - Stages 4 & 5
- Green Square Town Centre
- NSW Cadastre
- Development Blocks

Historic Soil Sample Locations

- Borehole / Monitoring Well,Coffey 1999
- Borehole,Coffey 2011
- Borehole / Monitoring Well,Coffey 2011
- Borehole,EMS 2002
- Borehole,EMS 2006
- Borehole,HLA 2007 - Incinerator Site
- Borehole,HLA 2007 - Police Site
- Borehole,JBS&G 2014
- Borehole,JBS&G 2022
- Borehole / Monitoring Well,JBS&G 2022
- Borehole,JBS&G 2023
- Borehole / Monitoring Well,JBS&G 2023

Scale 1:1,250 — 0 10 20 metres

Coord. Sys. GDA 1994 MGA Zone 56

Job No: 69239

Client: Mirvac Green Square Pty Ltd

Version: R04 Rev 1 | Date 23/09/2025

Drawn By: RF | Checked By: CD/NC

Green Square, NSW

SOIL SAMPLE LOCATIONS

FIGURE 4

JBS&G

File Name: 69329_GreenSquare_SSDA_DevelopableArea_R04_Rev1
Reference:



Legend

- The Site - Stages 4 & 5
- Green Square Town Centre
- NSW Cadastre
- Development Blocks

Historic Groundwater Well Locations

- Borehole / Monitoring Well,Coffey 1999
- Monitoring Well,Coffey 2011
- Borehole / Monitoring Well,Coffey 2011
- Borehole,EMS 2002
- Borehole,EMS 2006
- Monitoring Well,HLA 2007 - Incinerator Site
- Monitoring Well,HLA 2007 - Police Site
- Monitoring Well,JBS&G 2012
- Monitoring Well,JBS&G 2018
- Borehole,JBS&G 2022
- Borehole / Monitoring Well,JBS&G 2022
- Borehole,JBS&G 2023
- Borehole / Monitoring Well,JBS&G 2023

Scale 1:1,250 — 0 10 20 metres

Coord. Sys. GDA 1994 MGA Zone 56

Job No: 69239

Client: Mirvac Green Square Pty Ltd

Version: R04 Rev 1 | Date 23/09/2025

Drawn By: RF | Checked By: CD/NC

Green Square, NSW

GROUNDWATER MONITORING WELL LOCATIONS

FIGURE 5

JBS&G

File Name: 69329_GreenSquare_SSDA_DevelopableArea_R04_Rev1
Reference:



Legend

- The Site - Stages 4 & 5
- Green Square Town Centre
- NSW Cadastre
- Development Blocks
- Proposed Data Gap Soil Sample Location

Historic Soil Sample Locations

- Borehole / Monitoring Well,Coffey 1999
- Borehole,Coffey 2011
- Borehole / Monitoring Well,Coffey 2011
- Borehole,EMS 2002
- Borehole,EMS 2006

Scale 1:1,250 — 0 10 20 metres

Coord. Sys. GDA 1994 MGA Zone 56

Job No: 69239

Client: Mirvac Green Square Pty Ltd

Version: R04 Rev 1 | Date 24/09/2025

Drawn By: RF | Checked By: CD/NC

Green Square, NSW

DATA GAP ASSESSMENT

FIGURE 6

JBS&G

File Name: 69329_GreenSquare_SSDA_DevelopableArea_R04_Rev1
Reference:



Legend

- The Site - Stages 4 & 5
- Green Square Town Centre
- NSW Cadastre
- Development Blocks

Fill Thickness (m)

- 0 - 2
- 2.01 - 4
- 4.01 - 6
- 6.01 - 8
- 8.01 - 10
- 10.01 - 12
- 12.01 - 14
- 14.01 - 16
- 16.01 - 18

Scale 1:1,250

0 10 20

metres

Coord. Sys. GDA 1994 MGA Zone 56

Job No: 69239

Client: Mirvac Green Square Pty Ltd

Version: R04 Rev 1 | Date 23/09/2025

Drawn By: RF | Checked By: CD/NC

Green Square, NSW

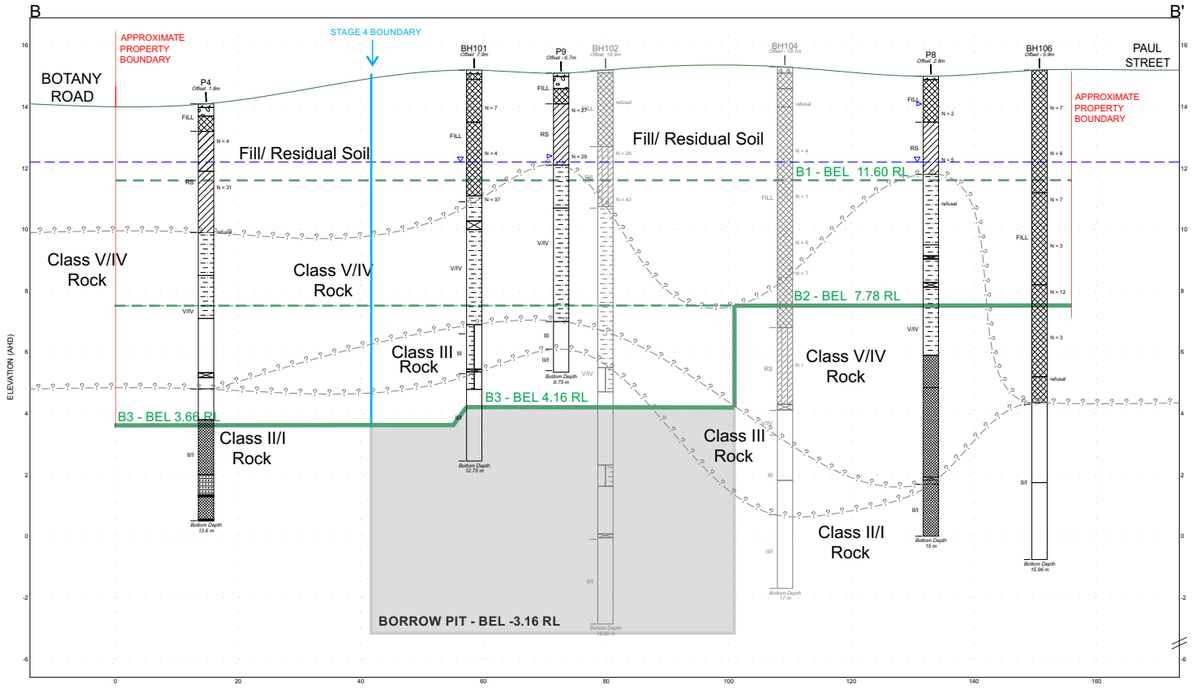
DEPTH OF FILL

FIGURE 7

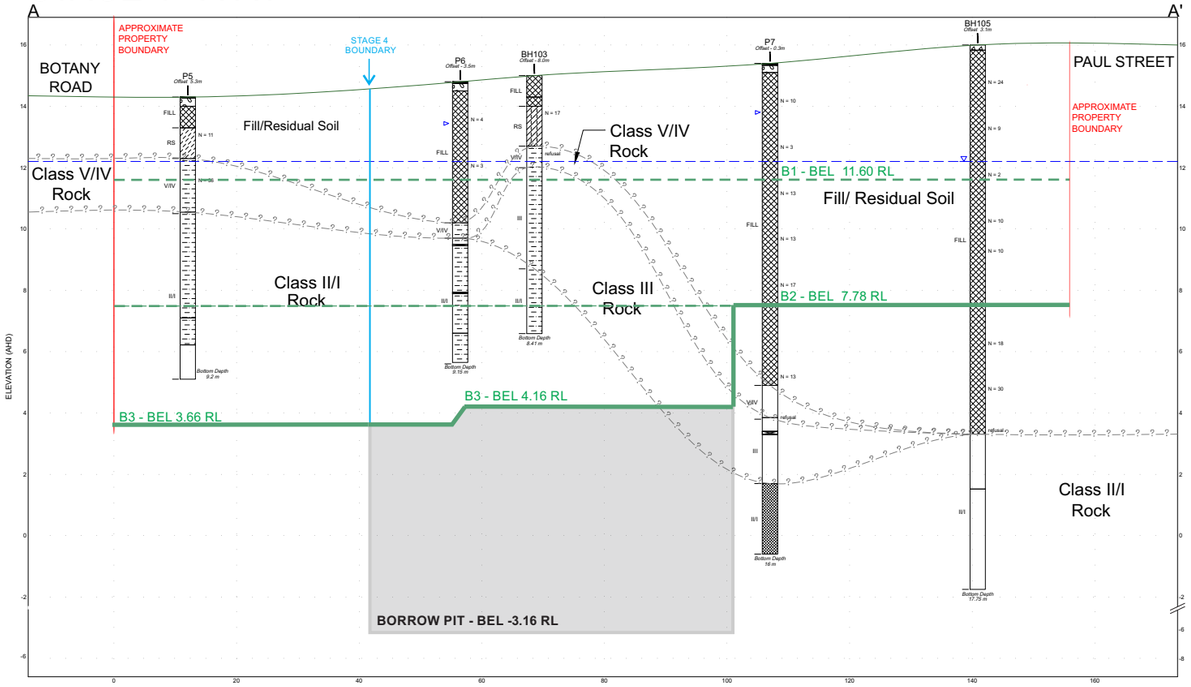
JBS&G

File Name: 69329_GreenSquare_SSDA_DevelopableArea_R04_Rev1
Reference:

STAGE 4 - B-B1



STAGE 4 - A-A1





Basement Footprint

Borrow Pit

Green Square, NSW

FIGURE 8: STAGE 4 SCHEMATIC CROSS SECTIONS

JBS&G

Version: R04 Rev 0 - 20250923
Adapted from - Geotechnical Investigation - DP 2015

0 20

Horizontal Scale (metres)

Vertical Exaggeration = 5.0

LEGEND

- Core Loss
- Asphaltic Concrete
- Clayey Sand
- Concrete
- Filling
- Roadbase
- Sandstone
- Sandstone coarse grained
- Sandstone fine grained
- Siltstone
- Silty Clay

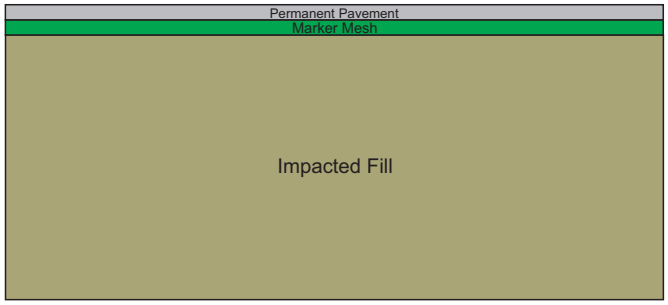
TESTS / OTHER

- N - Standard penetration test value
- ▽ - Water level
- ▷ - Water seepage
- ---- - Approximate Groundwater Level

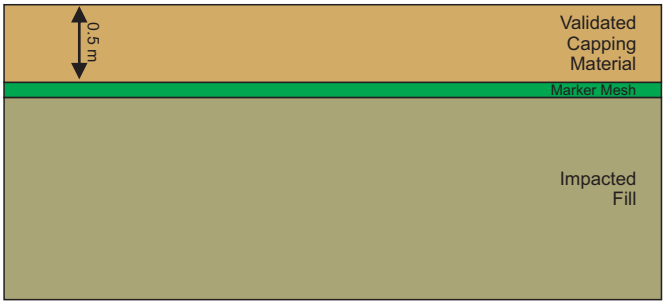
NOTES:

1. Subsurface conditions are accurate at the borehole locations only. Variations in subsurface conditions may occur between borehole locations. Interpreted strata boundaries are approximate and should be used as a guide only.
2. Summary logs included only and should be read in conjunction with detailed logs.

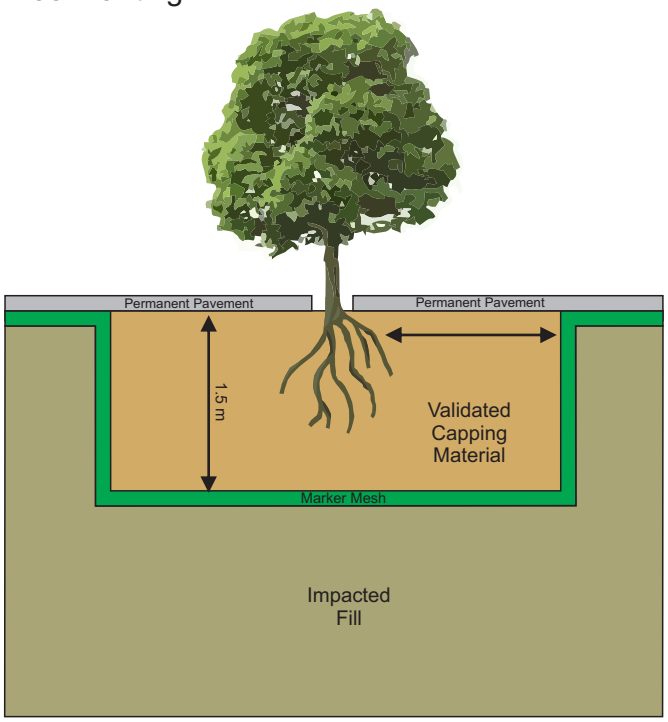
Paved Areas & Development Blocks



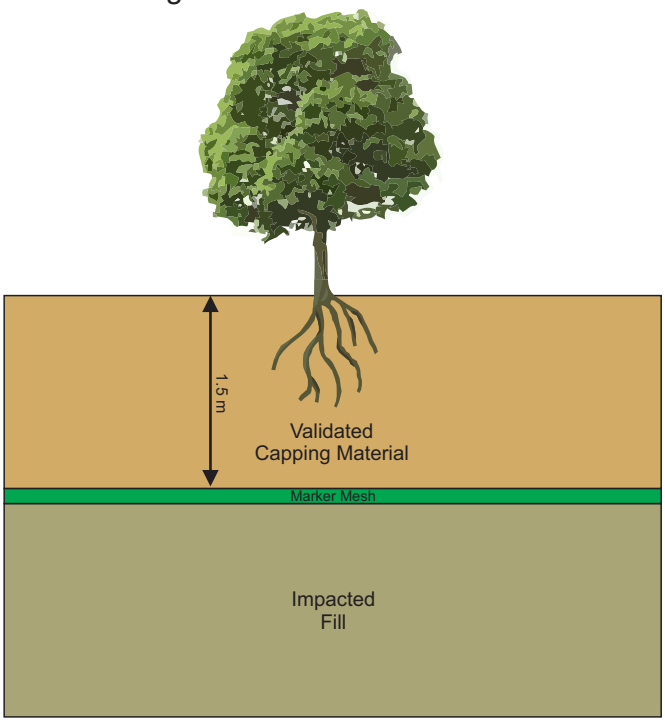
Unpaved Areas



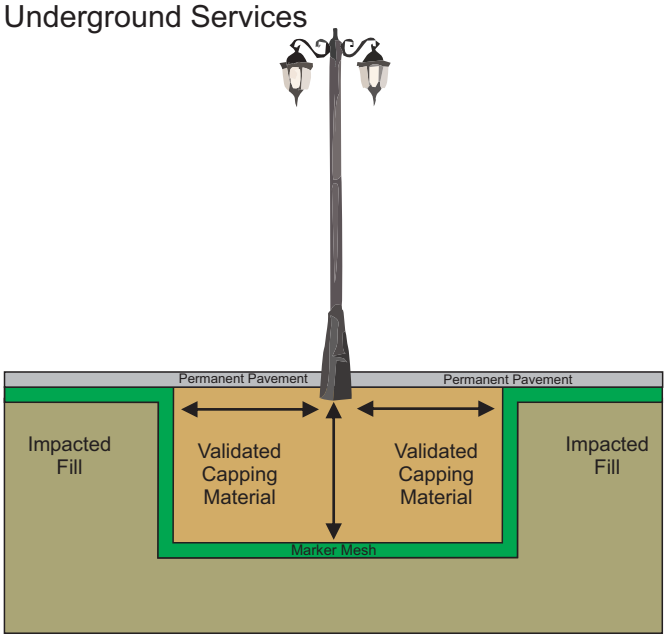
Tree Planting



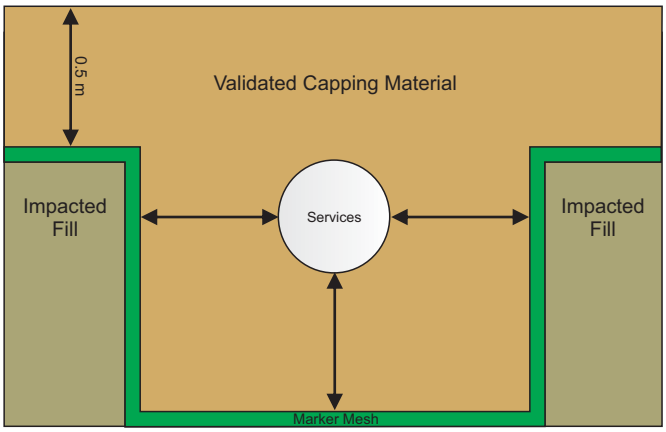
Tree Planting



Underground Services



Underground Services



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Scale: Various

Rev	Description	Drn.	Date
A4			
1	Original Issue - R04	RF	23-09-2025

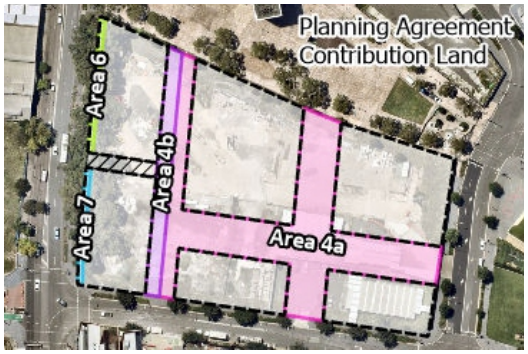
JBS&G **Figure 9a: Capping Requirements**

Client: Mirvac Green Square Pty Ltd

Project: Green Square - Stage 3

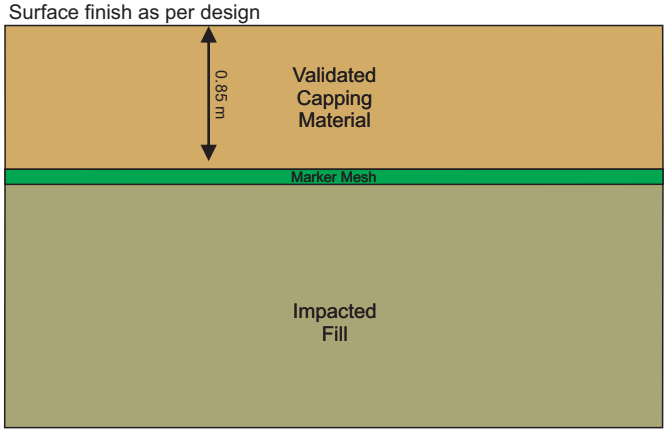
Job No: 69329 File Name: 69329

Planning Agreement Contribution Land



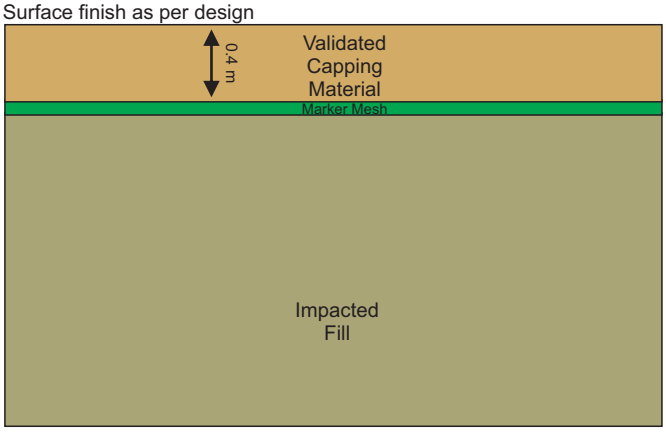
Area 4A / 4B

Surface finish as per design

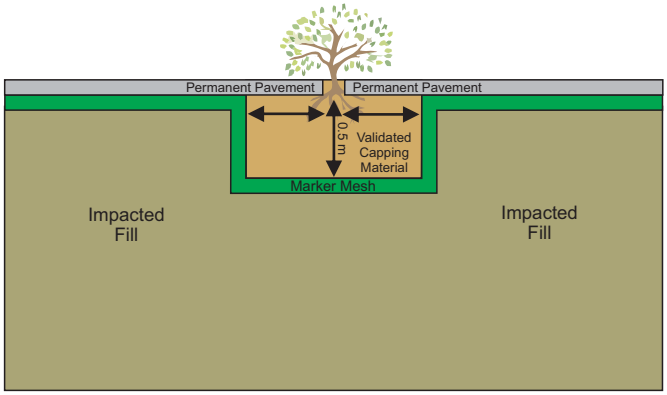


Area 6 / 7

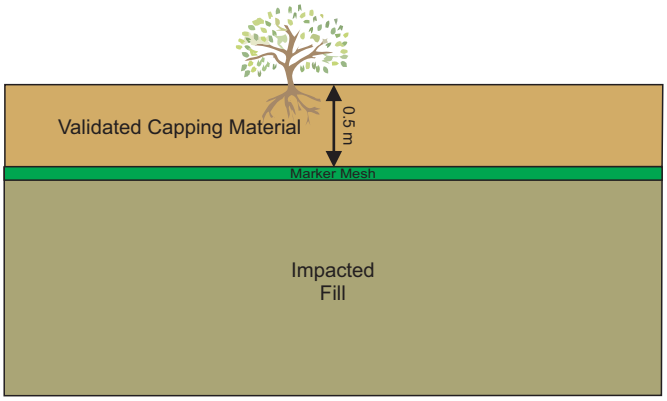
Surface finish as per design



Shallow Planting Zones



Shallow Planting Zones



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Scale: Various

Rev	Description	Drn.	Date
A4			
1	Original Issue - R04	RF	23-09-2025

JBS&G **Figure 9b: Capping Requirements**

Client: Mirvac Green Square Pty Ltd

Project: Green Square - Stage 3

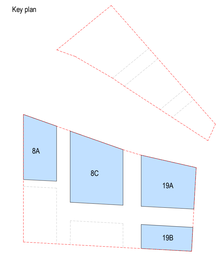
Job No: 69329 File Name: 69329

Appendix A Architectural Plans



1 Site Plan
1 : 250

Key plan



GENERAL NOTES - BULK EXCAVATION

1. Drawing References
The Contractor must refer to other relevant documents including but not limited to the following:
1.1 Piling drawings
1.2 Concrete Setout drawings
1.3 Structural Consultants drawings
1.4 Electrical Consultants drawings
1.5 Hydraulic Consultant drawings
1.6 Landscape drawings
1.7 Civil Consultant drawings

2. Other References
Design Compliance:
- AS 3798 – 2007 Guidelines on earthworks for commercial and residential developments
- AS 1289.5.1.1 Methods of testing soils for Engineering purposes
- Geotechnical Report
- Construction Noise and Vibration Management Plan
- Excavation Report

3. Drawing rules, setout and dimensioning
3.1 The setout dimensions reflect Architectural intent. If a dimension is inconsistent with the structural sizing confirm before proceeding.
3.2 SRL's shown on plans which apply to multiple levels refer only to the lowest level.

LEGEND - BULK EXCAVATION

- Indicates approximate extent of existing sub surface structure
- Indicates area of fill over existing ground
- Indicates area of excavation into existing ground
- Indicates area of excavation for pit or well
- Indicates bank (provide with stable slope as necessary)
- 1.600 — Denotes existing ground levels as indicated by Surveyor

Client
mirvac

MIRVAC DESIGN
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urban design
interior design
property design
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Sydney NSW 2000
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Mirvac Design Pty Ltd
ABN 76 003 039 163
Mirvac Design Nominated / Responsible Architects
Anita Hanna Andrew Le Cand Hirst Michael Wainer
https://www.mirvacdesign.com/nominated-architects

date	rev	amendment
08.09.2025	A	ISSUED FOR INFORMATION

* For previous versions refer to Document Control history

project:
GREEN SQUARE

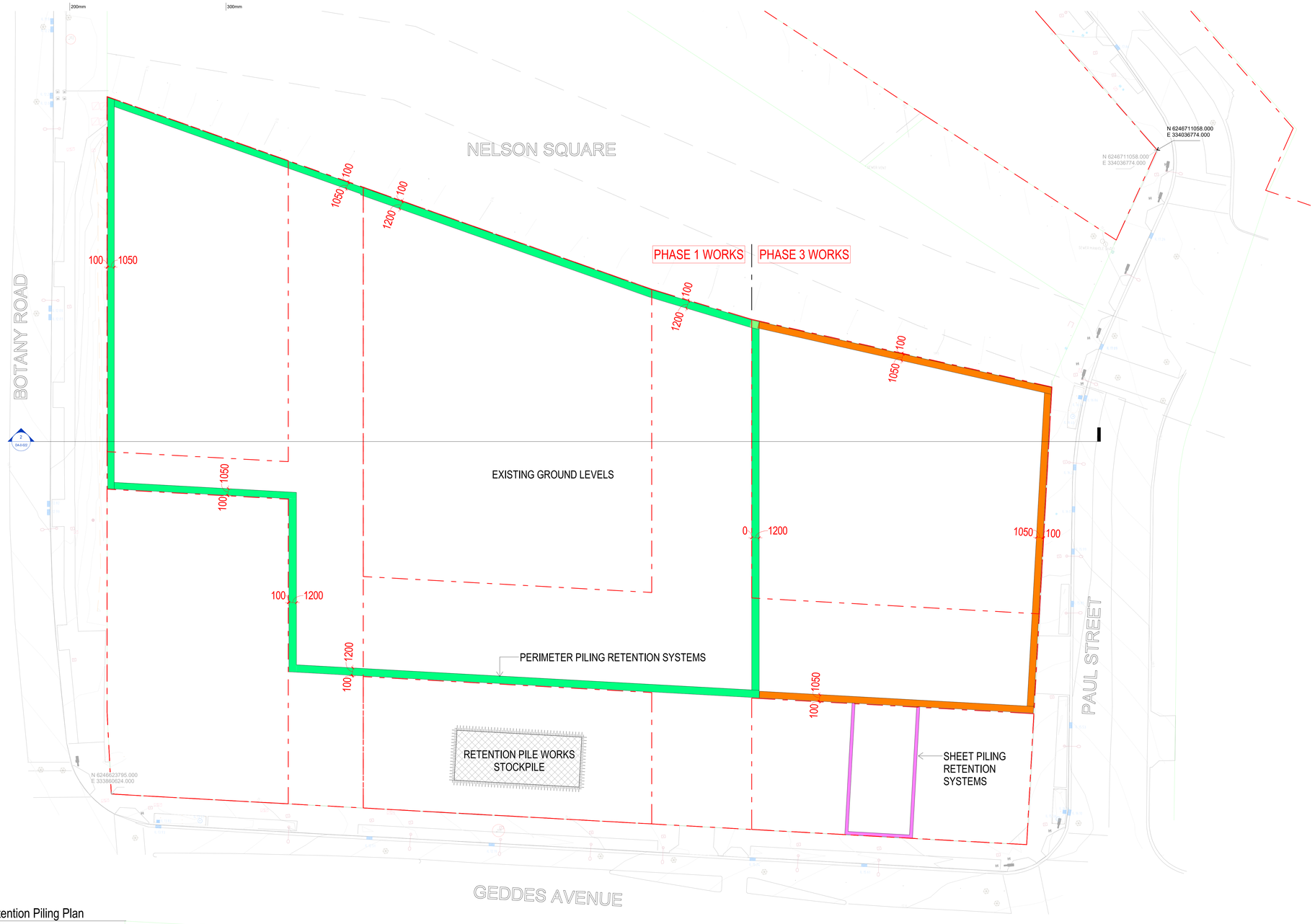
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Early Works Site Plan

PRELIMINARY NOT FOR CONSTRUCTION

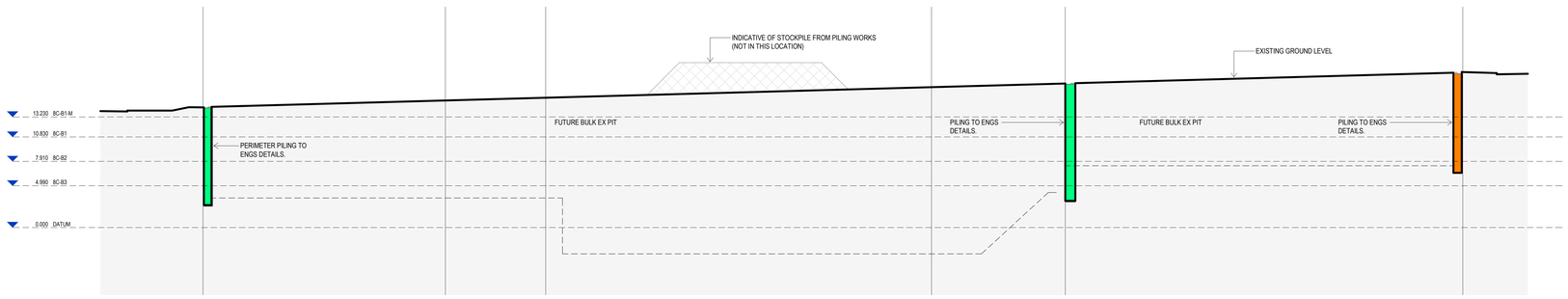
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drawing no: DA-0-020
rev: A
scale: 1 : 250 @ A0
date: 08.09.2025

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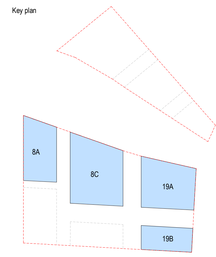


1 Retention Piling Plan
1 : 250



2 Retention Piling Section
1 : 250

Key plan



GENERAL NOTES - BULK EXCAVATION

1. Drawing References
The Contractor must refer to other relevant documents including but not limited to the following:
1.1 Piling drawings
1.2 Concrete Setout drawings
1.3 Structural Consultants drawings
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- Indicates area of excavation into existing ground
- Indicates area of excavation for pit or well
- Indicates bank (provide with stable slope as necessary)
- 1.600 — Denotes existing ground levels as indicated by Surveyor

Client: mirvac

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Mirvac Design Nominated - Responsible Architects
Anita Isemo Andrew Lu David Hirst Michael Wainer
https://www.mirvacdesign.com/nominated-architects

date	rev	amendment
08.09.2025	A	ISSUED FOR INFORMATION

* For previous versions refer to Document Control history

project:
GREEN SQUARE

title:
Early Works Retention Pile Plan

PRELIMINARY NOT FOR CONSTRUCTION

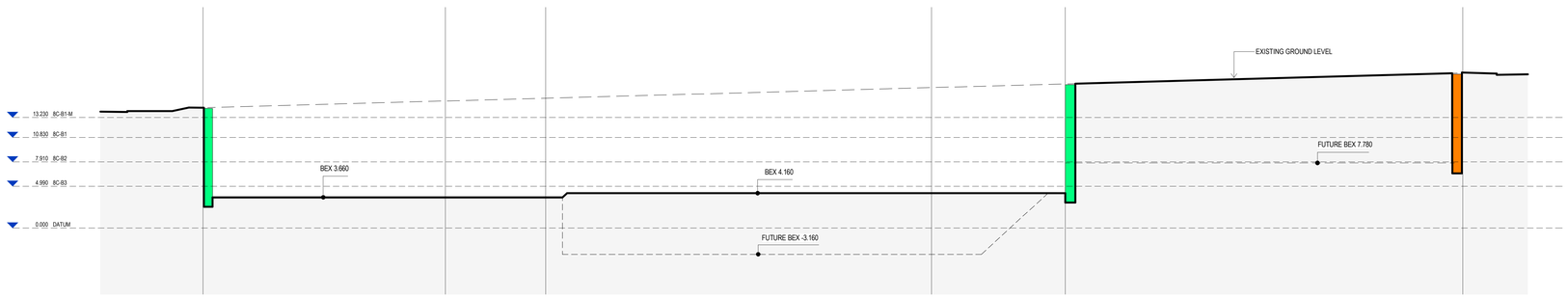
DRAWING COLOUR CODED - PRINT ALL COPIES ON COLOUR

drawing no: DA-0-022
rev: A
scale: 1 : 250 @ A0
date: 08.09.2025

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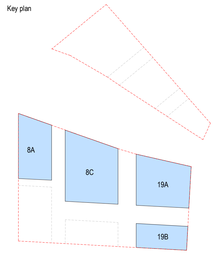


1 Phase 1 - Bulk Excavation Plan
1 : 250



2 Phase 1 Section
1 : 250

Key plan



GENERAL NOTES - BULK EXCAVATION

1. Drawing References
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1.1 Piling drawings
1.2 Concrete Setout drawings
1.3 Structural Consultants drawings
1.4 Electrical Consultants drawings
1.5 Hydraulic Consultant drawings
1.6 Landscape drawings
1.7 Civil Consultant drawings

2. Other References
Design Compliance:
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- AS 1289.5.1.1 Methods of testing soils for Engineering purposes
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- Construction Noise and Vibration Management Plan
- Excavation Report

3. Drawing rules, setout and dimensioning
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3.2 SRL's shown on plans which apply to multiple levels refer only to the lowest level.

LEGEND - BULK EXCAVATION

- Indicates approximate extent of existing sub surface structure
- Indicates area of fill over existing ground
- Indicates area of excavation into existing ground
- Indicates area of excavation for pit or well
- Indicates bank (provide with stable slope as necessary)
- 1.600 — Denotes existing ground levels as indicated by Surveyor

Client
mirvac

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ACN/ACLN: Mirvac Design Pty Ltd
ARBN: ABN 76 003 599 163
Mirvac Design Nominated / Responsible Architects
ANSA Nsw/ha: Andrew Lo David Hirst Michael Kleiner
https://www.mirvacdesign.com/nominated-architects

date	rev	amendment
08.09.2025	A	ISSUED FOR INFORMATION

* For previous versions refer to Document Control history

project:
GREEN SQUARE

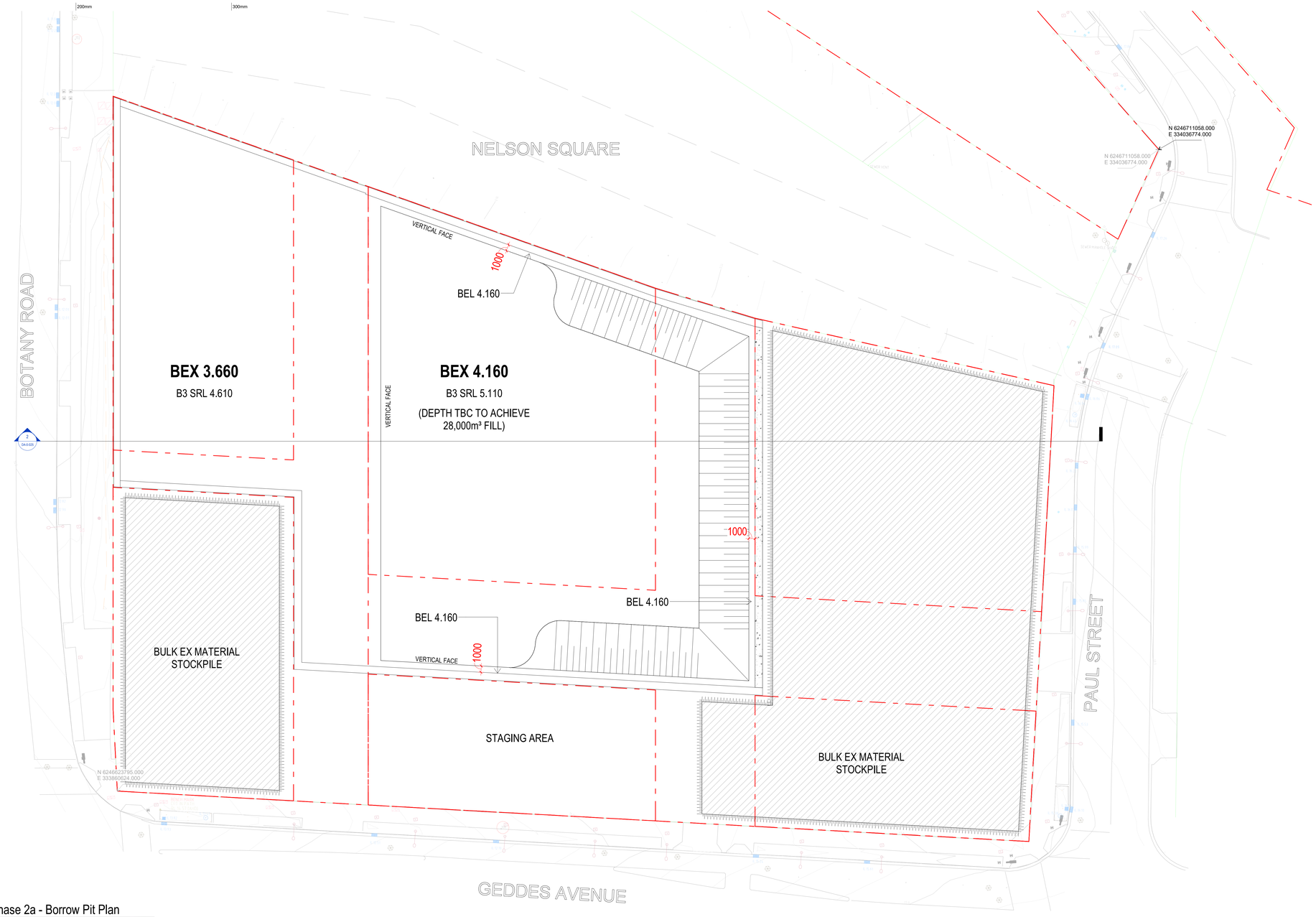
title:
Early Works Phase 1 - Bulk Earthworks

drawing no: DA-0-024
rev: A
scale: 1 : 250 @ A0
date: 08.09.2025

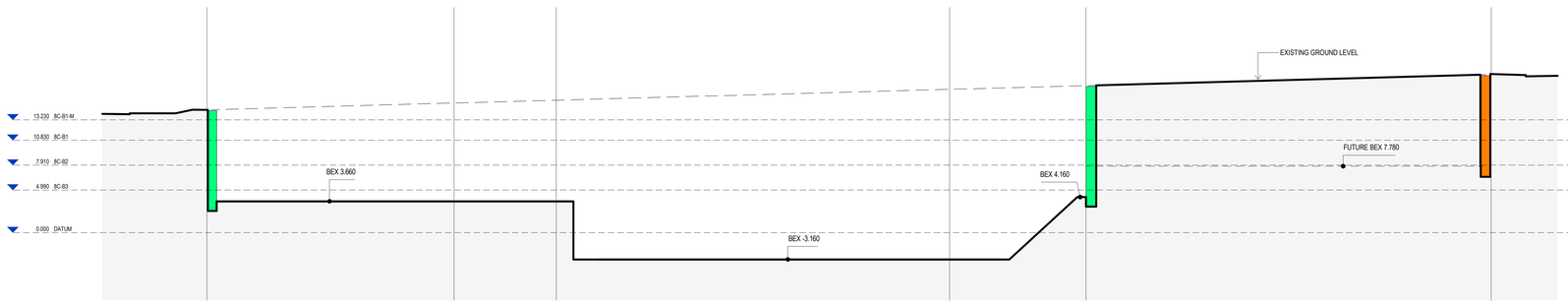
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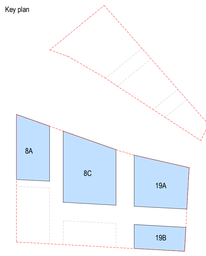


1 Phase 2a - Borrow Pit Plan
1 : 250



2 Phase 2a Section
1 : 250

Key plan



GENERAL NOTES - BULK EXCAVATION

1. Drawing References
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1.1 Piling drawings
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- AS 1289.5.1.1 Methods of testing soils for Engineering purposes
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- Excavation Report

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LEGEND - BULK EXCAVATION

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- Indicates area of excavation into existing ground
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- Indicates bank (provide with stable slope as necessary)
- 1.600 — Denotes existing ground levels as indicated by Surveyor

Client: mirvac

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urban design
interior design
graphic design
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Anita Hanna Andrew Le Cand Hirst Michael Wiener
https://www.nsw.architectsregistrationboard.nsw.gov.au/

date	rev.	amendment
08.09.2025	A	ISSUED FOR INFORMATION

* For previous versions refer to Document Control history

project:
GREEN SQUARE

title:
Early Works Phase 2a - Borrow Pit

drawing no: DA-0-025
rev: A
scale: 1 : 250 @ A0
date: 08.09.2025

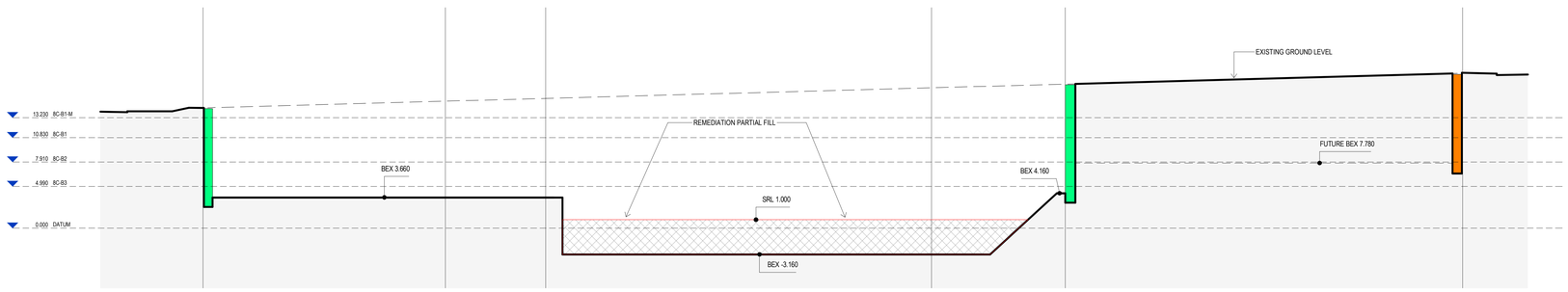
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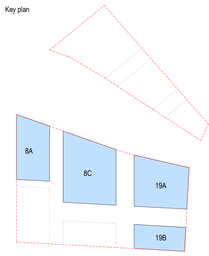


1 Phase 2b - Remediation Plan
1 : 250



2 Phase 2b Section
1 : 250

Key plan



GENERAL NOTES - BULK EXCAVATION

1. Drawing References
The Contractor must refer to other relevant documents including but not limited to the following:
1.1 Piling drawings
1.2 Concrete Setout drawings
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1.5 Hydraulic Consultant drawings
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1.7 Civil Consultant drawings

2. Other References
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- Excavation Report

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Client: mirvac

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ABN 76 003 09 153
Mirvac Design Nominated / Responsible Architects
Anita Isemo Andrew Lu David Hirst Michael Wainer
https://www.mirvacdesign.com/nominated-architects

date	rev	amendment
08.09.2025	A	ISSUED FOR INFORMATION

* For previous versions refer to Document Control history

project: **GREEN SQUARE**

title: Early Works Phase 2b - Remediation Works

drawing no: DA-0-026
rev: A
scale: 1 : 250 @ A0
date: 08.09.2025

PRELIMINARY NOT FOR CONSTRUCTION

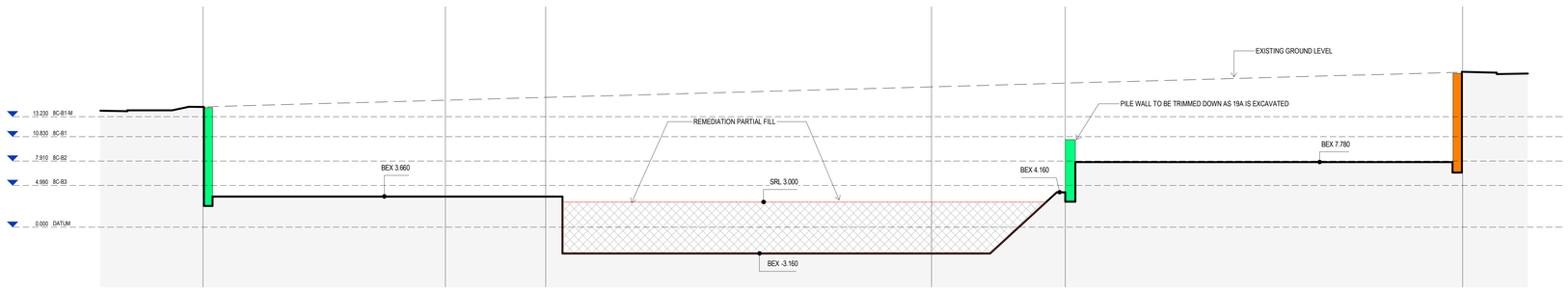
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1 Phase 3a - Bulk Excavation Plan

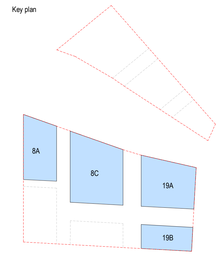
1 : 250



2 Phase 3a Section

1 : 250

Key plan



GENERAL NOTES - BULK EXCAVATION

1. Drawing References
The Contractor must refer to other relevant documents including but not limited to the following:
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Client

mirvac

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https://www.mirvacdesign.com/nominated-architects

date	rev	amendment
08.09.2025	A	ISSUED FOR INFORMATION

* For previous versions refer to Document Control history

project:

GREEN SQUARE

title:

Early Works Phase 3a - Bulk Earthworks

drawing no: DA-0-027

rev: A

scale: 1 : 250 @ A0

date: 08.09.2025

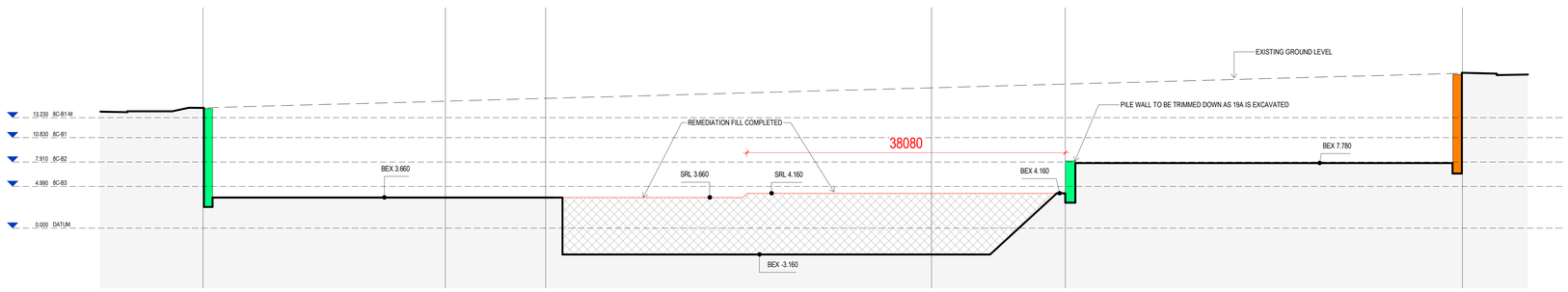
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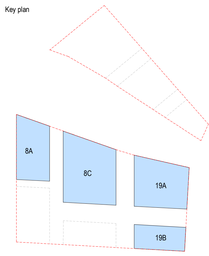


1 Bulk Excavation Plan
1 : 250



2 Phase 3b Section
1 : 250

Key plan



GENERAL NOTES - BULK EXCAVATION

1. Drawing References
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https://www.nominatedarchitects.com.au/nominated-architects

date	rev	amendment
08.09.2025	A	ISSUED FOR INFORMATION

* For previous versions refer to Document Control history

project:
GREEN SQUARE

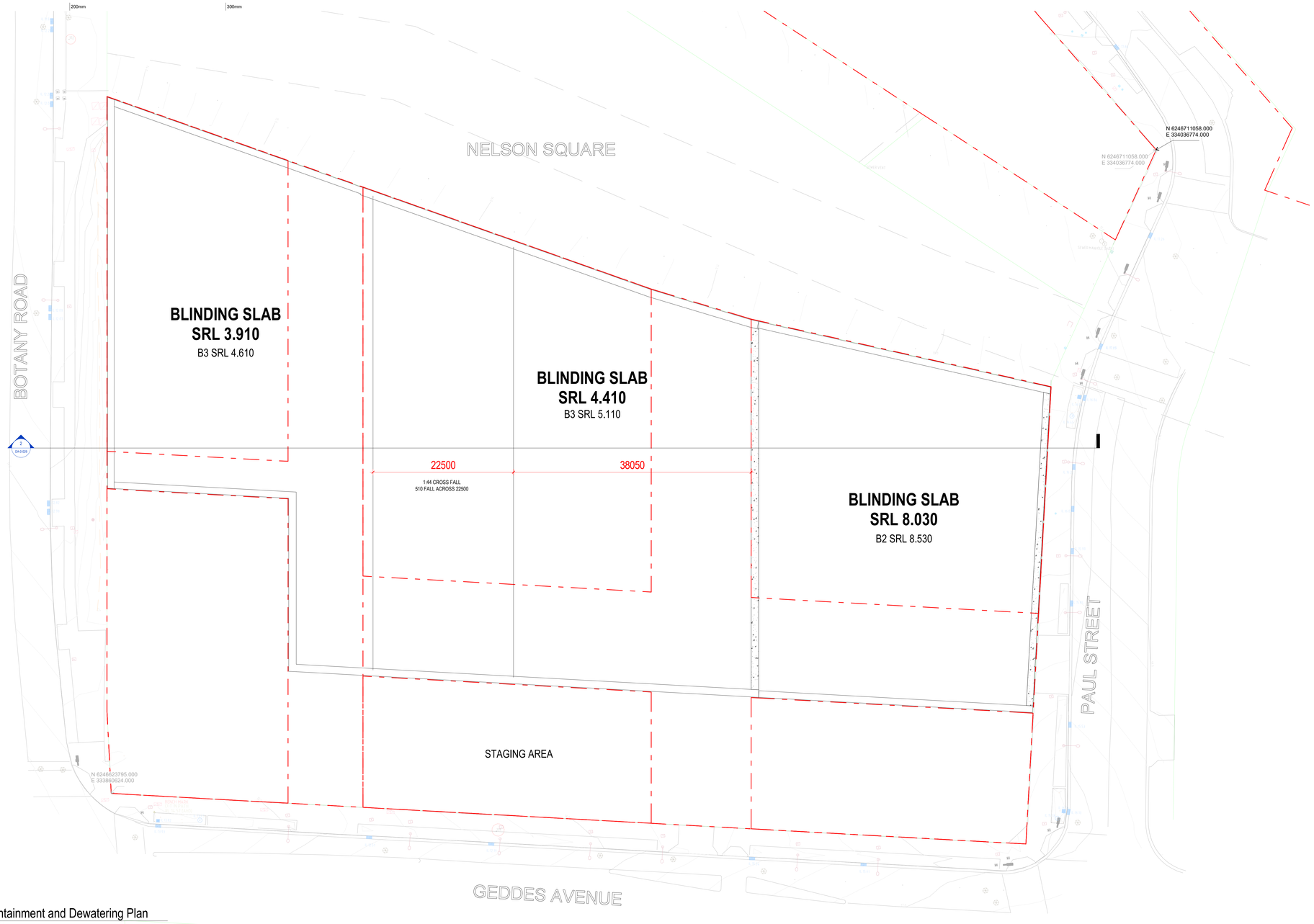
title:
Early Works Phase 3b - Bulk Earthworks

drawing no: DA-0-028
rev: A
scale: 1 : 250 @ A0
date: 08.09.2025

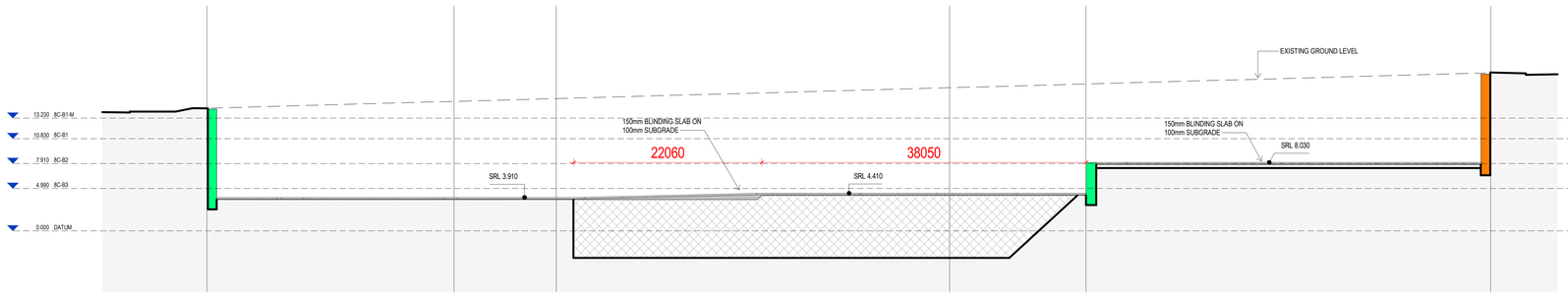
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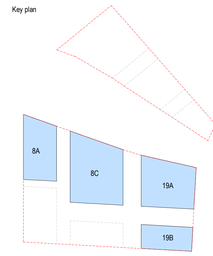


1 Containment and Dewatering Plan
1 : 250



2 Containment and Dewatering Section
1 : 250

Key plan



GENERAL NOTES - BULK EXCAVATION

1. Drawing References
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Client
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T 02 9935 8000
architecture
urban design
interior design
property design
Mirvac Design Pty Ltd
ABN 76 003 308 153
Mirvac Design Nominated / Responsible Architects
Anita Hanna Andrew Le Cerdi Hirst Richard Wiener
https://www.nominatedarchitects.com.au/nominated-architects

date	rev	amendment
08.09.2025	A	ISSUED FOR INFORMATION

* For previous versions refer to Document Control history

project:
GREEN SQUARE

title:
Early Works - Containment and Dewatering

drawing no: DA-0-029
rev: A
scale: 1 : 250 @ A0
date: 08.09.2025

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GREEN SQUARE PLAZA

BOTANY ROAD

PAUL STREET

GEDDES AVENUE

STAGE 5
BEL 3.66

STAGE 4
BEL 4.16

STAGE 4
BEL 7.78

STAGE 4
BEL 10.80

BEL 14.50

BEL = FSL - 500mm

BEL 15.50

BEL = FSL - 500mm

BEL 16.50

BEL 16.50

DP 1199427
1.351ha

DP 6 1199427

DP 2 1271617
469.7m²

1
8216

2
8216

CUT\FILL DEPTH RANGE LEGEND

Lower_value		Upper_value		Colour
-100	to	-16.0	m	
-16.0	to	-14.0	m	
-14.0	to	-12.0	m	
-12.0	to	-10.0	m	
-10.0	to	-8.0	m	
-8.0	to	-6.0	m	
-6.0	to	-4.0	m	
-4.0	to	-2.0	m	
-2.0	to	0.0	m	
0.0	to	2.0	m	
2.0	to	4.0	m	
4.0	to	6.0	m	
6.0	to	8.0	m	
8.0	to	10.0	m	
10.0	to	12.0	m	
12.0	to	14.0	m	
14.0	to	16.0	m	
16.0	to	100	m	

NOTES

1. VOLUMES ARE BASED ON EXISTING SURFACE VS NOMINATED BULK EXCAVATION LEVELS.
   DETAILED VOLUMES TBC AT DETAILED DESIGN STAGE.
2. REFER TO DWG DA-0-8201 FOR GENERAL NOTES.
3. THE VOLUMES DO NOT TAKE INTO ACCOUNT THE FOLLOWING :-
   - BULKING FACTORS OF REMOVED CUT
   - REMOVAL AND/OR REMEDIATION OF ANY EXISTING UNCONTROLLED FILL
   - PROPOSED LANDSCAPING
   - PROPOSED RETAINING WALL EARTHWORKS AND BACKFILL MATERIAL
   - TRENCHING FOR STORMWATER NETWORK AND ALL SERVICES

DESIGN CUT AND FILL VOLUMES

NET CUT (cu.m)	NET FILL (cu.m)	BALANCE (cu.m)
-108,157	+13	-108,144 (EXPORT)

ALL LEVELS SHOWN ARE ± 1000mm.

Issue	Description	Date
A	SSDA1 EARLY WORKS SUBMISSION	23-09-25
P3	DRAFT DA ISSUE	19-09-25
P2	ISSUED FOR INFORMATION	26-08-25
P1	ISSUED FOR INFORMATION	17-07-25

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

100mm on Original

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Client: mirvac

Scales: 1 : 250

Grid: GDA20 MGA56

Height Datum: AHD

Drawn	CK
Designed	CK
Checked	JC
Approved	JC

Project: GREEN SQUARE
STAGE 4 & 5
SSDA1
EARLY WORKS

Title: BULK EARTHWORKS
PLAN
PHASE 3B
(ULTIMATE)

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney
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E info@atl.net.au
www.atl.net.au
ABN 96 130 882 405

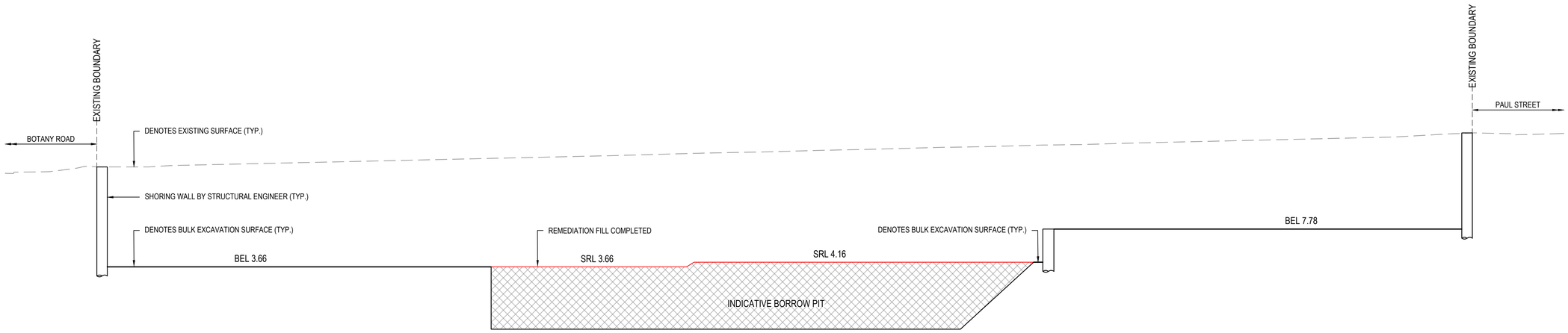
Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project - Drawing No.: DA-0-8211

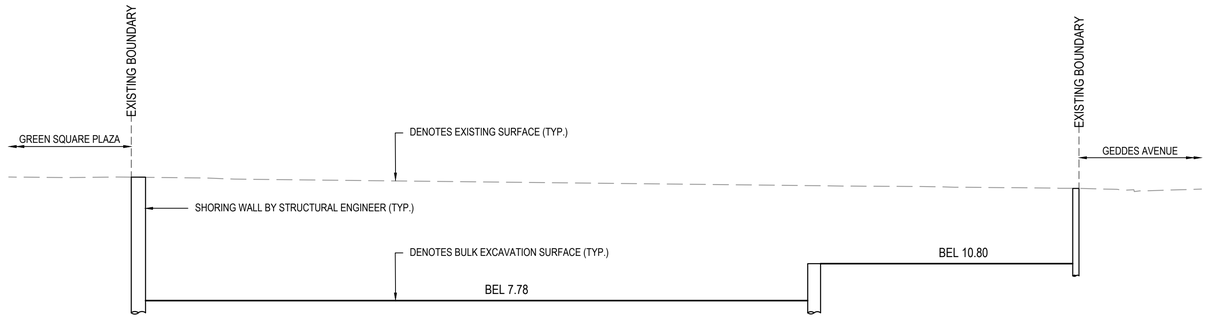
Issue: A

F:\22-1030 Green Square Mirvac\6.0 Drgs\Civil\Final\1000_STAGE 4 5_SSDA1 Early Works\DA-0-8211.dwg



PHASE 3B

SECTION 1
1 : 250 8211



PHASE 3B

SECTION 2
1 : 250 8211

Issue	Description	Date
A	SSDA1 EARLY WORKS SUBMISSION	23-09-25
P3	DRAFT DA ISSUE	19-09-25
P2	ISSUED FOR INFORMATION	26-08-25
P1	ISSUED FOR INFORMATION	17-07-25

100mm on Original

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

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Client: mirvac

Scales	AS SHOWN
Grid	GDA20 MGA56
Height Datum	AHD
Drawn	CK
Designed	CK
Checked	JC
Approved	JC

Project: GREEN SQUARE STAGE 4 & 5 SSDA1 EARLY WORKS

Title: BULK EARTHWORKS SECTIONS PHASE 3B (ULTIMATE)

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Level 7, 153 Walker Street
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E info@atl.net.au
www.atl.net.au
ABN 96 130 882 405

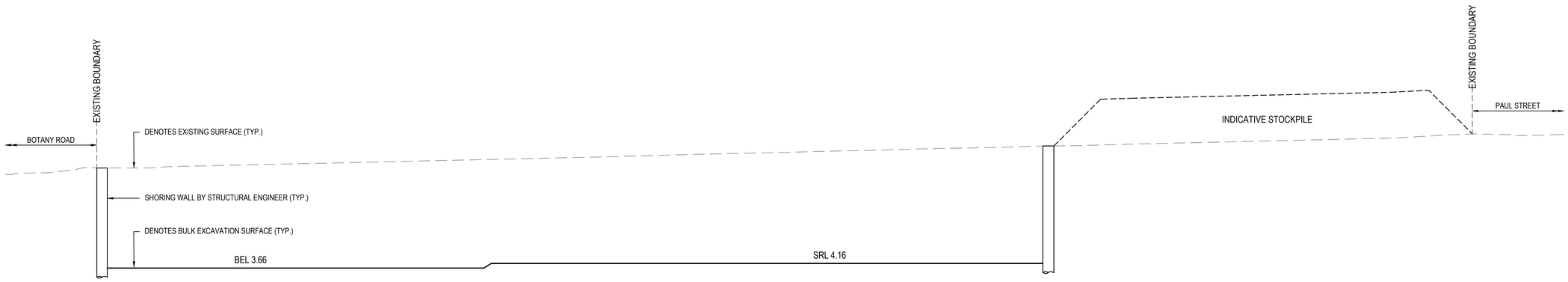
Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project - Drawing No.: DA-0-8216

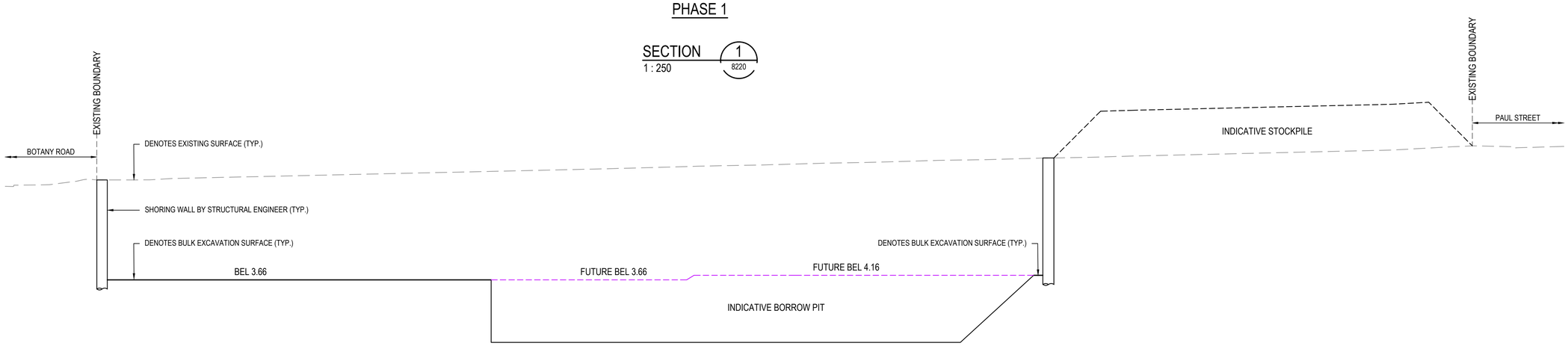
Issue: A

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PHASE 1

SECTION 1 / 8220
1 : 250



PHASE 2A

SECTION 2A / 8221
1 : 250

Issue	Description	Date
A	SSDA1 EARLY WORKS SUBMISSION	23-09-25
P3	DRAFT DA ISSUE	19-09-25
P2	ISSUED FOR INFORMATION	26-08-25
P1	ISSUED FOR INFORMATION	17-07-25

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

100mm on Original

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Client: mirvac

Scales: AS SHOWN
Grid: GDA20 MGA56
Height Datum: AHD

Drawn	CK
Designed	CK
Checked	JC
Approved	JC

Project: GREEN SQUARE
STAGE 4 & 5
SSDA1
EARLY WORKS

Title: STAGING
SECTIONS
SHEET 1

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney
NSW 2060
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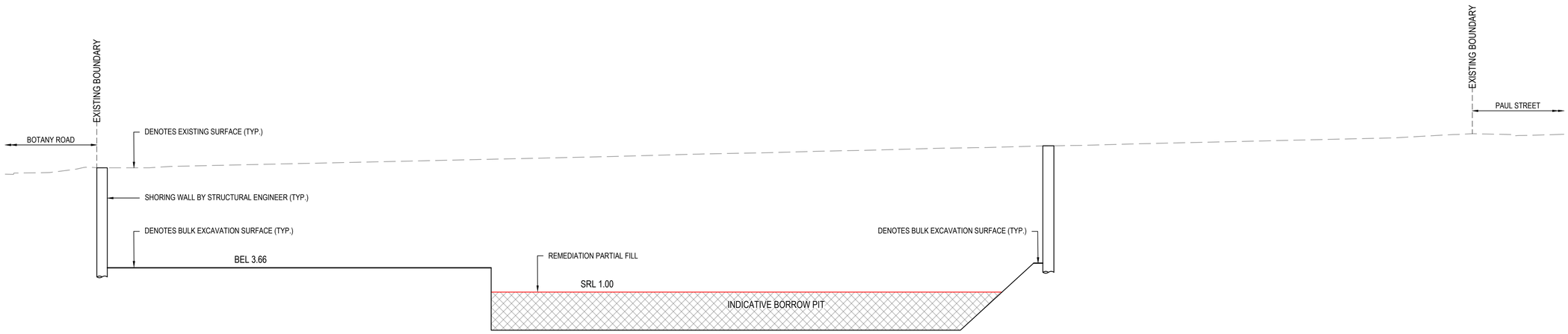
Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project - Drawing No.: DA-0-8230

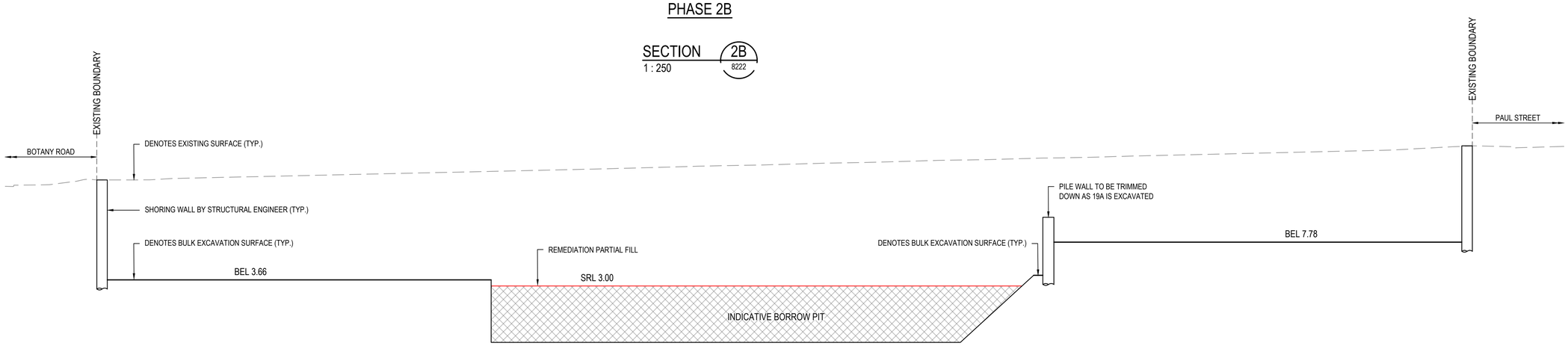
Issue: A

F:\22-1030 Green Square Mirvac\6.0 Drgs\Civil\Final\1000_STAGE 4 5_SSDA1 Early Works\DA-0-8230.dwg



PHASE 2B

SECTION 2B (8222)
1 : 250



PHASE 3A

SECTION 3A (8223)
1 : 250

REFER DWG DA-0-8216 FOR PHASE 3B ULTIMATE BULK EARHTWORKS SECTIONS

Issue	Description	Date
A	SSDA1 EARLY WORKS SUBMISSION	23-09-25
P3	DRAFT DA ISSUE	19-09-25
P2	ISSUED FOR INFORMATION	26-08-25
P1	ISSUED FOR INFORMATION	17-07-25

100mm on Original

Bar Scales
0 5 10 15 20 25m
1 : 250 @ A1 1 : 500 @ A3

THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L

Client: mirvac

Scales	AS SHOWN	Drawn	CK
		Designed	CK
Grid	GDA20 MGA56	Checked	JC
Height Datum	AHD	Approved	JC

Project: GREEN SQUARE
STAGE 4 & 5
SSDA1
EARLY WORKS

Title: STAGING
SECTIONS
SHEET 2

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Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project - Drawing No.: DA-0-8231

Issue: A

F:\22-1030 Green Square Mirvac\6.0 Drgs\Civil\Final\1000_STAGE 4 5_SSDA1 Early Works\DA-0-8231.dwg

Appendix B Analytical Summary Tables

Table A - Asbestos
Project Number: 69329
Project Name: SSDA Stage 3, 4, 5

					Asbestos - Laboratory Analysis										Asbestos - Field Quantification					
					Approximate Sample Mass	Mass ACM	Mass Asbestos in ACM	Asbestos from ACM in Soil	Mass FA	Mass Asbestos in FA	Mass AF	Mass asbestos in AF	Asbestos from FA & AF in Soil	Mass Asbestos in FA & AF	Quantification Soil Volume	Assumed Bulk Density	ACM Dimensions	Sample Weight	ACM Weight	ACM Quantification (%w/w)
					g	g	g	% (w/w)	g	g	g	g	% (w/w)	g	L	g/cm	mm	g	g	%(w/w)
EQL					-	-	-	<0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
NEPM 2013 Table 7 Res B Soil HSL for Asbestos in Soil								0.04[#1]					0.001[#2]							0.04
Sample ID	**Sample Location**	**Depth Range (m)**	**Reference**	**Date**	**Matrix Description**															
Stage 4																				
AQ029_1	AQ029	0-0.8	975114	20/03/2023	Fill - SAND	749	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ029_2	AQ029	0.8-1.5	975114	20/03/2023	Fill - SAND	791	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ029_3	AQ029	1.5-3.1	975114	20/03/2023	Fill - SAND	720	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ029_4	AQ023	3.1-4.1	975114	20/03/2023	Natural - CLAY	730	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ030-1	AQ030	0-0.3	975114	20/03/2023	Fill - CLAY	684	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ030_2	AQ030	0.3-1.1	975114	20/03/2023	Fill - CLAY	676	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ030_3	AQ030	1.1-1.6	975114	20/03/2023	Fill - CLAY	740	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ030_4	AQ030	1.6-2.5	975114	20/03/2023	Fill - CLAY	630	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ030_5	AQ030	2.5-3.2	975114	20/03/2023	Reworked Natural - CLAY	654	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ030_6	AQ030	3.2-4.1	975114	20/03/2023	Natural - CLAY	623	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA18	AQ030_6	3.2-4.1	319142	20/03/2023	Natural - CLAY	610	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC_18	AQ030_6	3.2-4.1	975114	20/03/2023	Natural - CLAY	695	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ031_1	AQ031	0.11-2.1	975114	20/03/2023	Fill - CLAY	759	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ031_2	AQ031	2.1-2.6	975114	20/03/2023	Fill - SAND	681	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ031_3	AQ031	2.6-3.1	975114	20/03/2023	Fill - CLAY	691	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ031_4	AQ031	3.1-4.1	975114	20/03/2023	Natural - CLAY	551	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ032_1	AQ032	0.1-1.2	975114	20/03/2023	Fill - SAND	794	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ032_2	AQ032	1.2-3.1	975114	20/03/2023	Natural - CLAY	571	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ032_3	AQ032	3.1-4.1	975114	20/03/2023	Natural - CLAY	667	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ033_1	AQ033	0-0.5	975114	20/03/2023	Fill - SILT	803	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ033_2	AQ033	0.5-1.2	975114	20/03/2023	Fill - SAND	595	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ033_3	AQ033	1.2-2.5	975114	20/03/2023	Fill - SAND	460	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ033_4	AQ033	2.5-3.4	975114	20/03/2023	Fill - SAND	594	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ033_5	AQ033	3.4-4.6	975114	20/03/2023	Natural - CLAY	607	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ034_1	AQ034	0-0.3	975114	21/03/2023	Fill - SILT	773	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ034_2	AQ034	0.3-1.2	975114	21/03/2023	Fill - CLAY	693	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ034_3	AQ034	1.2-2.2	975114	21/03/2023	Fill - CLAY	743	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ034_4	AQ034	2.2-3.1	975114	21/03/2023	Natural - CLAY	640	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ035_1	AQ035	0-0.3	975114	21/03/2023	Fill - CLAY	799	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ035_2	AQ035	0.3-1.2	975114	21/03/2023	Fill - CLAY	693	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ035_3	AQ035	1.2-2.1	975114	21/03/2023	Fill - CLAY	819	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ035_4	AQ035	2.1-3.1	975114	21/03/2023	Fill - CLAY	651	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ035_5	AQ035	3.1-4	975114	21/03/2023	Natural - CLAY	531	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ036_1	AQ036	0-0.3	975114	21/03/2023	Fill - CLAY	456	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ036_2	AQ036	0.3-1.2	975114	21/03/2023	Fill - CLAY	748	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ036_3	AQ036	1.2-2.1	975114	21/03/2023	Fill - CLAY	714	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC24	AQ036_3	1.2-2.1	975114	21/03/2023	Fill - CLAY	503	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA24	AQ036_3	1.2-2.1	319308	21/03/2023	Fill - CLAY	550	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ036_4	AQ036	2.1-3.1	975114	21/03/2023	Natural - CLAY	883	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ037_1	AQ037	0-0.4	975114	21/03/2023	Fill - CLAY	613	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ037_2	AQ037	0.4-1	975114	21/03/2023	Fill - CLAY	651	-	-	<0.001	0.0234	0.01404	0.039	0.039	0.0081437126	0.05304	10	1.65	-	-	-	-
AQ037_3	AQ037	1-2.1	975114	21/03/2023	Fill - CLAY	564	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ037_4	AQ037	2.1-3	975114	21/03/2023	Fill - CLAY	595	-	-	<0.001	-	-	0.0019	0.0019	0.0003195963	0.0019	10	1.65	-	-	-	-
QC22	AQ037_4	2.1-3	975114	21/03/2023	Fill - CLAY	578	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA22	AQ037_4	2.1-3	319308	21/03/2023	Fill - CLAY	592	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ037-5	AQ037	3-4.1	977841	21/03/2023	Fill - CLAY	697	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ037_6	AQ037	4.1-4.6	975114	21/03/2023	Natural - CLAY	585	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ038_1	AQ038	0-0.3	975114	21/03/2023	Fill - CLAY	609	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ038_2	AQ038	0.3-1.1	975114	21/03/2023	Fill - CLAY	435	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ038_3	AQ038	1.1-2	975114	21/03/2023	Natural - CLAY	711	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ039_1	AQ039	0.11-0.4	975114	20/03/2023	Fill - SILT	1010	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ039_2	AQ039	0.4-1.8	975114	20/03/2023	Natural - CLAY	627	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA20	AQ039_2	0.4-1.8	319142	20/03/2023	Natural - CLAY	651	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC20	AQ039_2	0.4-1.8	975114	20/03/2023	Natural - CLAY	585	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ040_1	AQ040	0.1-1.4	975042	22/03/2023	Natural - SAND	668	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ041_1	AQ041	0-0.5	975114	20/03/2023	Fill - SILT	671	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ041_2	AQ041	0.5-1.1	975114	20/03/2023	Fill - CLAY	726	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ041_3	AQ041	1.1-2.2	975114	20/03/2023	Natural - CLAY	708	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ042_1	AQ042	0.16-1.1	975042	22/03/2023	Fill - SAND	655	1.6906	0.16906	0.025802808	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ042_2	AQ042	1.1-2.4	975042	22/03/2023	Natural - CLAY	710	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ043_1	AQ043	0.11-0.8	975042	22/03/2023	Fill - CLAY	682	-	-	<0.001	0.0156	0.00468	-	-	0.000686318	0.00468	10	1.65	-	-	-	-
AQ043_2	AQ043	0.8-1.7	975042	22/03/2023	Fill - CLAY	649	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-

Table A - Asbestos
Project Number: 69329
Project Name: SSDA Stage 3, 4, 5

				Asbestos - Laboratory Analysis							Asbestos - Field Quantification								
				Approximate Sample Mass	Mass ACM	Mass Asbestos in ACM	Asbestos from ACM in Soil	Mass FA	Mass Asbestos in FA	Mass AF	Mass asbestos in AF	Asbestos from FA & AF in Soil	Mass Asbestos in FA & AF	Quantification Soil Volume	Assumed Bulk Density	ACM Dimensions	Sample Weight	ACM Weight	ACM Quantification (%w/w)
				g	g	g	% (w/w)	g	g	g	g	% (w/w)	g	L	g/cm	mm	g	g	%(w/w)
EQL				-	-	-	<0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
NEPM 2013 Table 7 Res B Soil HSL for Asbestos in Soil							0.04[#1]					0.001[#2]							0.04
Sample ID	Sample Location	Depth Range (m)	Reference	Date	Matrix Description														
Stage 4																			
AQ043_3	AQ043	1.7-2.9	975042	22/03/2023	Fill - CLAY	656	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ044_1	AQ044	0.7-1.1	975114	20/03/2023	Fill - SILT	835	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ044_2	AQ044	1.1-1.5	975114	20/03/2023	Fill - SAND	557	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ044_3	AQ044	1.5-2.1	975114	20/03/2023	Natural - CLAY	677	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ045_1	AQ045	0-0.7	975042	22/03/2023	Fill - CLAY	709	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ045_2	AQ045	0.7-1.5	975042	22/03/2023	Fill - CLAY	710	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ045_3	AQ045	1.5-2.1	975042	22/03/2023	Fill - CLAY	804	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ045_4	AQ045	2.1-2.7	975042	22/03/2023	Fill - CLAY	648	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ046_1	AQ046	0.05-1.3	975042	22/03/2023	Fill - SAND	584	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ046_2	AQ046	1.3-2.5	975042	22/03/2023	Fill - SAND	418	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA33	AQ046_2	1.3-2.5	319308	22/03/2023	Fill - SAND	384	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC33	AQ046_2	1.3-2.5	975042	22/03/2023	Fill - SAND	464	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ046_3	AQ046	2.5-3.1	975042	22/03/2023	Fill - SAND	526	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ046_4	AQ046	3.1-4.2	975042	22/03/2023	Fill - GRAVEL	528	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ046_5	AQ046	4.2-5.5	975042	22/03/2023	Fill - CLAY	895	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ046_6	AQ046	5.5-5.8	975042	22/03/2023	Fill - CLAY	873	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ047_1	AQ047	0-1	975042	22/03/2023	Fill - CLAY	713	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ048_1	AQ048	0.1-0.3	975114	21/03/2023	Fill - CLAY	721	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ048_2	AQ048	0.3-1.1	975114	21/03/2023	Fill - CLAY	694	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ048_3	AQ048	1.1-2.2	975114	21/03/2023	Fill - CLAY	518	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ049_1	AQ049	0.11-1.1	975042	22/03/2023	Fill - SAND	727	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ049_2	AQ049	1.1-2.4	975042	22/03/2023	Fill - CLAY	492	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA26	AQ049_2	1.1-2.4	319308	22/03/2023	Fill - CLAY	731	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC26	AQ049_2	1.1-2.4	975042	22/03/2023	Fill - CLAY	715	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ050_1	AQ050	0.1-1.1	975042	22/03/2023	Fill - CLAY	665	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ051_1	AQ051	0.1-0.3	975114	21/03/2023	Fill - SILT	638	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ051_2	AQ051	0.3-1.2	975114	21/03/2023	Fill - CLAY	507	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ051_3	AQ051	1.2-2.1	975114	21/03/2023	Natural - CLAY	501	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ052_1	AQ052	0.1-0.7	975114	21/03/2023	Fill - CLAY	790	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ052_2	AQ052	0.7-1.1	975114	21/03/2023	Fill - CLAY	501	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ052_3	AQ052	1.1-2.1	975114	21/03/2023	Natural - CLAY	575	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ053_1	AQ053	0.1-0.7	975042	22/03/2023	Fill - CLAY	609	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ053_2	AQ053	0.7-1.2	977841	22/03/2023	Fill - CLAY	703	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ054_1	AQ054	0.15-0.3	975114	21/03/2023	Fill - CLAY	502	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ054_2	AQ054	0.3-0.5	975114	21/03/2023	Fill - CLAY	774	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ054_3	AQ054	0.5-1.2	975114	21/03/2023	Natural - CLAY	431	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ055_1	AQ055	0.1-1.1	975761	23/03/2023	Fill - SAND	703	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ055_2	AQ055	1.1-2.2	975761	23/03/2023	Fill - CLAY	683	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ055_3	AQ055	2.2-3.2	975761	23/03/2023	Fill - CLAY	629	0.9968	0.09968	0.015844858	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ055_4	AQ055	3.2-4.2	975761	23/03/2023	Fill - CLAY	755	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ055_5	AQ055	4.2-5.2	975761	23/03/2023	Fill - CLAY	872	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ055_6	AQ055	5.2-6.3	975761	23/03/2023	Fill - CLAY	948	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ056_1	AQ056	0-1.1	975042	22/03/2023	Fill - SAND	634	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA31	AQ056_1	0-1.1	319308	22/03/2023	Fill - SAND	689	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC31	AQ056_1	0-1.1	975042	22/03/2023	Fill - SAND	704	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ056_2	AQ056	1.1-1.9	975042	22/03/2023	Fill - SAND	456	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ056_3	AQ056	1.9-2.7	975042	22/03/2023	Fill - SAND	429	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ056_4	AQ056	2.7-3.8	975042	22/03/2023	Fill - SAND	611	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ056_5	AQ056	3.8-5.1	975042	22/03/2023	Fill - CLAY	735	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ056_6	AQ056	5.1-6.2	975042	22/03/2023	Fill - CLAY	740	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ056_7	AQ056	6.2-7.1	975042	22/03/2023	Fill - CLAY	586	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ057_1	AQ057	0.01-1.1	975761	23/03/2023	Fill - CLAY	543	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ057_2	AQ057	1.1-2.1	975761	23/03/2023	Fill - CLAY	704	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ057_3	AQ057	2.1-3.1	975761	23/03/2023	Fill - CLAY	580	-	-	<0.001	-	-	0.0018	0.0018	0.000310184	0.0018	10	1.65	-	-	-	-
AQ057_4	AQ057	3.1-4.1	975761	23/03/2023	Fill - CLAY	844	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ057_5	AQ057	4.1-5.1	975761	23/03/2023	Fill - CLAY	817	-	-	<0.001	0.0328	0.01968	-	-	0.002409993	0.01968	10	1.65	-	-	-	-
AQ057_6	AQ057	5.1-6.1	975761	23/03/2023	Fill - CLAY	564	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ057_7	AQ057	6.1-7.1	975761	23/03/2023	Fill - CLAY	414	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ058_1	AQ058	0.01-1.1	975761	23/03/2023	Fill - SAND	750	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ058_2	AQ058	1.1-2.1	975761	23/03/2023	Fill - SAND	543	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ058_3	AQ058	2.1-3.1	975761	23/03/2023	Fill - SAND	470	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ058_4	AQ058	3.1-4.1	975761	23/03/2023	Fill - CLAY	700	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA34	AQ058_4	3.1-4.1	319468	23/03/2023	Fill - CLAY	686	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC34	AQ058_4	3.1-4.1	975761	23/03/2023	Fill - CLAY	722	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-

Table A - Asbestos
Project Number: 69329
Project Name: SSDA Stage 3, 4, 5

				Asbestos - Laboratory Analysis							Asbestos - Field Quantification					
	Approximate Sample Mass	Mass ACM	Mass Asbestos in ACM	Asbestos from ACM in Soil	Mass FA	Mass Asbestos in FA	Mass AF	Mass asbestos in AF	Asbestos from FA & AF in Soil	Mass Asbestos in FA & AF	Quantification Soil Volume	Assumed Bulk Density	ACM Dimensions	Sample Weight	ACM Weight	ACM Quantification (%w/w)
	g	g	g	% (w/w)	g	g	g	g	% (w/w)	g	L	g/cm	mm	g	g	%(w/w)
EQL	-	-	-	<0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
NEPM 2013 Table 7 Res B Soil HSL for Asbestos in Soil				0.04[#1]					0.001[#2]							0.04

Sample ID	Sample Location	Depth Range (m)	Reference	Date	Matrix Description														
Stage 4																			
AQ058_5	AQ058	4.1-5.2	975761	23/03/2023	Fill - CLAY	694	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ058_6	AQ058	5.2-6.1	975761	23/03/2023	Fill - CLAY	750	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ058_7	AQ058	6.1-7.1	975761	23/03/2023	Fill - CLAY	762	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ059_1	AQ059	0.01-1.1	975761	23/03/2023	Fill - SAND	501	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ059_2	AQ059	1.1-2.1	975761	23/03/2023	Fill - SAND	839	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ059_3	AQ059	2.1-3.1	975761	23/03/2023	Fill - SAND	786	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ059_4	AQ059	3.1-4.2	975761	23/03/2023	Fill - SAND	709	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ059_5	AQ059	4.2-5.1	975761	23/03/2023	Fill - SAND	688	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ059_6	AQ059	5.1-6.1	975761	23/03/2023	Fill - SAND	940	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ059_7	AQ059	6.1-7.1	975761	23/03/2023	Fill - SAND	1015	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ060_1	AQ060	0.1-1.1	975761	23/03/2023	Fill - CLAY	578	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA32	AQ060_1	0.1-1.1	319468	23/03/2023	Fill - CLAY	521	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC32	AQ060_1	0.1-1.1	975761	23/03/2023	Fill - CLAY	621	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ060_2	AQ060	1.1-2.1	975761	23/03/2023	Fill - CLAY	689	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ060_3	AQ060	2.1-3.1	975761	23/03/2023	Fill - CLAY	629	-	-	<0.001	-	-	0.0012	0.0012	0.00019087	0.0012	10	1.65	-	-	-	-
AQ060_4	AQ060	3.1-4.1	975761	23/03/2023	Fill - CLAY	770	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ060_5	AQ060	4.1-5.1	975761	23/03/2023	Fill - CLAY	779	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ060_6	AQ060	5.1-6.1	975761	23/03/2023	Fill - CLAY	662	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ060_7	AQ060	6.1-7.1	975761	23/03/2023	Fill - CLAY	359	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ061_1	AQ61	0-1.1	975042	22/03/2023	Fill - CLAY	679	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ061_2	AQ61	1.1-2.2	975042	22/03/2023	Fill - SAND	481	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ061_3	AQ61	2.2-3	975042	22/03/2023	Fill - SAND	613	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	30x20x5	6	0.006	0.0054545
AQ061_4	AQ61	3-4	975042	22/03/2023	Fill - SAND	613	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ061_5	AQ61	4-5	975042	22/03/2023	Fill - CLAY	689	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ061_6	AQ61	5-6.1	975042	22/03/2023	Fill - GRAVEL	607	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ061_7	AQ61	6.1-7.5	975042	22/03/2023	Fill - CLAY	637	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ062_1	AQ062	0.15-1.1	975761	23/03/2023	Fill - SAND	700	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ062_2	AQ062	1.1-2	975761	23/03/2023	Fill - GRAVEL	430	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA37	AQ062_2	1.1-2	319468	23/03/2023	Fill - GRAVEL	403	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC37	AQ062_2	1.1-2	975761	23/03/2023	Fill - GRAVEL	445	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ062_3	AQ062	2-3	975761	23/03/2023	Fill - GRAVEL	441	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ062_4	AQ062	3-4.1	975761	23/03/2023	Fill - SAND	875	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ063_1	AQ063	0.15-1.1	975761	23/03/2023	Fill - GRAVEL	685	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ063_2	AQ063	1.1-2.1	975761	23/03/2023	Fill - GRAVEL	581	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ063_3	AQ063	2.1-3.1	975761	23/03/2023	Fill - SAND	743	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ063_4	AQ063	3.1-4.2	975761	23/03/2023	Fill - SAND	936	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ063_5	AQ063	4.2-5.4	975761	23/03/2023	Fill - CLAY	912	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ064_1	AQ064	0.1-1.2	975042	22/03/2023	Fill - CLAY	605	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ064_2	AQ064	1.2-2.7	975042	22/03/2023	Fill - CLAY	543	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ064_3	AQ064	2.7-3.1	975042	22/03/2023	Fill - CLAY	772	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA28	AQ064_3	2.7-3.1	319308	22/03/2023	Fill - CLAY	674	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC28	AQ064_3	2.7-3.1	975042	22/03/2023	Fill - CLAY	742	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ064_4	AQ064	3.1-4.1	975042	22/03/2023	Fill - CLAY	746	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ064_5	AQ064	4.1-5.1	975042	22/03/2023	Fill - CLAY	586	-	-	<0.001	-	-	0.0002	0.0002	3.41239E-05	0.0002	10	1.65	-	-	-	-
AQ064_6	AQ064	5.1-6.1	975042	22/03/2023	Fill - CLAY	286	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ064_7	AQ064	6.1-7.1	975042	22/03/2023	Fill - CLAY	418	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ065_1	AQ065	0.1-1	975761	23/03/2023	Fill - CLAY	694	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ065_2	AQ065	1-2.1	975761	23/03/2023	Fill - CLAY	548	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA39	AQ065_2	1-2.1	319468	23/03/2023	Fill - CLAY	763	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC39	AQ065_2	1-2.1	975761	23/03/2023	Fill - CLAY	770	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ065_3	AQ065	2.1-3.4	975761	23/03/2023	Fill - CLAY	690	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ065_4	AQ065	3.4-4	975761	23/03/2023	Fill - CLAY	673	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ065_5	AQ065	4-5.2	975761	23/03/2023	Fill - CLAY	984	1.3206	0.13206	0.01342346	0	0	0.0004	0.0004	4.06587E-05	0.0004	10	1.65	-	-	-	-
AQ065_6	AQ065	5.2-5.9	975761	23/03/2023	Fill - CLAY	905	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ065_7	AQ065	5.9-6.5	975761	23/03/2023	Fill - CLAY	899	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ066_1	AQ066	0.01-1.1	975761	23/03/2023	Fill - SAND	719	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ066_2	AQ066	1.1-2.2	975761	23/03/2023	Fill - SAND	469	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ066_3	AQ066	2.2-3.1	975761	23/03/2023	Fill - SAND	681	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ066_4	AQ066	3.1-4.1	975761	23/03/2023	Fill - SAND	713	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ066_5	AQ066	4.1-5.1	975761	23/03/2023	Fill - SAND	791	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ066_6	AQ066	5.1-6.3	975761	23/03/2023	Fill - CLAY	942	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ066_7	AQ066	6.3-7.1	975761	23/03/2023	Fill - CLAY	829	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ067_1	AQ067	0.01-1.1	975761	23/03/2023	Fill - SAND	887	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ067_2	AQ067	1.1-2.1	975761	23/03/2023	Fill - SAND	665	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-

Table A - Asbestos
Project Number: 69329
Project Name: SSDA Stage 3, 4, 5

						Asbestos - Laboratory Analysis											Asbestos - Field Quantification						
						Approximate Sample Mass	Mass ACM	Mass Asbestos in ACM	Asbestos from ACM in Soil	Mass FA	Mass Asbestos in FA	Mass AF	Mass asbestos in AF	Asbestos from FA & AF in Soil	Mass Asbestos in FA & AF		Quantification Soil Volume	Assumed Bulk Density	ACM Dimensions	Sample Weight	ACM Weight	ACM Quantification (%w/w)
						g	g	g	% (w/w)	g	g	g	g	% (w/w)	g		L	g/cm	mm	g	g	%(w/w)
EQL						-	-	-	<0.001	-	-	-	-	<0.001	-		-	-	-	-	-	-
NEPM 2013 Table 7 Res B Soil HSL for Asbestos in Soil									0.04[#1]					0.001[#2]								0.04
Sample ID	Sample Location	Depth Range (m)	Reference	Date	Matrix Description																	
Stage 4																						
AQ067_3	AQ067	2.1-3.2	975761	23/03/2023	Fill - SAND	620	-	-	<0.001	-	-	-	-	<0.001	-		10	1.65	-	-	-	-
AQ067_4	AQ067	3.2-4.1	975761	23/03/2023	Fill - SAND	772	-	-	<0.001	-	-	-	-	<0.001	-		10	1.65	-	-	-	-
AQ067_5	AQ067	4.1-5.1	975761	23/03/2023	Fill - SAND	777	-	-	<0.001	-	-	-	-	<0.001	-		10	1.65	-	-	-	-
AQ067_6	AQ067	5.1-6.3	975761	23/03/2023	Fill - CLAY	831	-	-	<0.001	-	-	-	-	<0.001	-		10	1.65	-	-	-	-
AQ067_7	AQ067	6.3-7	975761	23/03/2023	Fill - CLAY	984	-	-	<0.001	-	-	-	-	<0.001	-		10	1.65	-	-	-	-
AQ068_1	AQ68	0.01-1.2	975761	23/03/2023	Fill - SAND	650	-	-	<0.001	-	-	-	-	<0.001	-		10	1.65	-	-	-	-
AQ068_2	AQ68	1.2-2.1	975761	23/03/2023	Fill - SAND	631	-	-	<0.001	-	-	-	-	<0.001	-		10	1.65	-	-	-	-
QA30	AQ068_2	1.2-2.1	319468	23/03/2023	Fill - SAND	636	-	-	<0.001	-	-	-	-	<0.001	-		10	1.65	-	-	-	-
QC30	AQ068_2	1.2-2.1	975761	23/03/2023	Fill - SAND	563	-	-	<0.001	-	-	-	-	<0.001	-		10	1.65	-	-	-	-
AQ068_3	AQ68	2.1-3.1	975761	23/03/2023	Fill - SAND	767	-	-	<0.001	-	-	-	-	<0.001	-		10	1.65	-	-	-	-
AQ068_4	AQ68	3.1-4.1	975761	23/03/2023	Fill - SAND	688	-	-	<0.001	-	-	-	-	<0.001	-		10	1.65	-	-	-	-
AQ068_5	AQ68	4.1-5.2	975761	23/03/2023	Fill - CLAY	763	-	-	<0.001	-	-	-	-	<0.001	-		10	1.65	-	-	-	-
AQ068_6	AQ68	5.2-6.3	975761	23/03/2023	Fill - CLAY	611	-	-	<0.001	-	-	-	-	<0.001	-		10	1.65	-	-	-	-
AQ068_7	AQ68	6.3-7.1	975761	23/03/2023	Fill - CLAY	873	-	-	<0.001	-	-	-	-	<0.001	-		10	1.65	-	-	-	-
AQ069_1	AQ069	0-1	975042	22/03/2023	Fill - GRAVEL	605	-	-	<0.001	-	-	-	-	<0.001	-		10	1.65	-	-	-	-
AQ069_2	AQ069	1-2.1	975042	22/03/2023	Fill - CLAY	728	-	-	<0.001	-	-	-	-	<0.001	-		10	1.65	-	-	-	-
AQ070_1	AQ070	0.15-0.9	975761	23/03/2023	Fill - CLAY	585	-	-	<0.001	-	-	-	-	<0.001	-		10	1.65	-	-	-	-
QA35	AQ070_1	0.15-0.9	319468	23/03/2023	Fill - CLAY	566	-	-	<0.001	-	-	-	-	<0.001	-		10	1.65	-	-	-	-
QC35	AQ070_1	0.15-0.9	975761	23/03/2023	Fill - CLAY	608	-	-	<0.001	-	-	-	-	<0.001	-		10	1.65	-	-	-	-
AQ070_2	AQ070	0.9-2.1	975761	23/03/2023	Fill - CLAY	770	-	-	<0.001	-	-	-	-	<0.001	-		10	1.65	-	-	-	-
AS03_0.2-0.2	AS03	0.2	EMS 2006	2006	unknown	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
AS03_0.4-0.4	AS03	0.4	EMS 2006	2006	unknown	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
AS03_1-1	AS03	1	EMS 2006	2006	unknown	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
BH3 2.0-2.2	BH3	2	Coffey 2011	2011	unknown	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
BH7_1-1.1	BH7	1-1.1	Coffey 2011	2011	unknown	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
BH7_2-2.1	BH7	2-2.1	Coffey 2011	2011	unknown	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
BH8_0.1-0.1	BH8	0.1	Coffey 2011	2011	unknown	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
BH8_0.5-0.6	BH8	0.5-0.6	Coffey 2011	2011	unknown	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
BH8_2-2.1	BH8	2-2.1	Coffey 2011	2011	unknown	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
BH9_3.0-3.5	BH9	3.0-3.5	HLA 2007	2007	unknown	-	-	PRESENT	-	-	-	-	-	-	-		-	-	-	-	-	-
BH10_7-7.5	BH10	7-7.5	HLA 2007	2007	unknown	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
BHP6A_0.5-0.6	BHP6A	0.5-0.6	Coffey 2011	2011	unknown	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
BHP6A_2-2.1	BHP6A	2-2.1	Coffey 2011	2011	unknown	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
BHP7_1-1.1	BHP7	1-1.1	Coffey 2011	2011	unknown	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
BHP7_2-2.1	BHP7	2-2.1	Coffey 2011	2011	unknown	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
BHP7_7-7.1	BHP7	7-7.1	Coffey 2011	2011	unknown	-	-	PRESENT	-	-	-	-	-	-	-		-	-	-	-	-	-
BHP8_0.1-0.1	BHP8	0.1	Coffey 2011	2011	unknown	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
BHP8_0.5-0.6	BHP8	0.5-0.6	Coffey 2011	2011	unknown	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
BHP8_2-2.1	BHP8	2-2.1	Coffey 2011	2011	unknown	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
BHP9_0.5-0.6	BHP9	0.5-0.6	Coffey 2011	2011	unknown	-	-	PRESENT	-	-	-	-	-	-	-		-	-	-	-	-	-
BHP9_0.9-1	BHP9	0.9-1	Coffey 2011	2011	unknown	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
FC077_0.8-1	FC077	0.8-1	405447	08 Jan 2014	Fill_SAND	-	-	PRESENT	-	-	-	-	-	-	-		-	-	-	-	-	-
FC077_1-1.2	FC077	1-1.2	405447	08 Jan 2014	Fill_SAND	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
FC077_2-2.2	FC077	2-2.2	405750	08 Jan 2014	Fill_SAND	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
FC078_0.1-0.2	FC078	0.1-0.2	405434	08 Jan 2014	Fill_SAND	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
FC078_4-4.2	FC078	4-4.2	405749	08 Jan 2014	Fill_SAND	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
QC16	FC078_4-4.2	4-4.2	405749	08 Jan 2014	Fill_SAND	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
QC16-A	FC078_4-4.2	4-4.2	103550	08 Jan 2014	Fill_SAND	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
FC079_0.1-0.2	FC079	0.1-0.2	405434	08 Jan 2014	Fill_SAND	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
FC079_1.8-2	FC079	1.8-2	405434	08 Jan 2014	Fill_SAND	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
FC080_0.2-0.3	FC080	0.2-0.3	405447	08 Jan 2014	Fill_SAND	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
FC080_0.8-1	FC080	0.8-1	405447	08 Jan 2014	Fill_SAND	-	-	PRESENT	-	-	-	-	-	-	-		-	-	-	-	-	-
FC081_0.2-0.3	FC081	0.2-0.3	405434	08 Jan 2014	Fill_SAND	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
FC082_0.2-0.3	FC082	0.2-0.3	405434	08 Jan 2014	Fill_SAND	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
FC082_1.8-2	FC082	1.8-2	405434	08 Jan 2014	Fill_CLAY	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
FC083_0.5-0.7	FC083	0.5-0.7	405477	08 Jan 2014	Fill_SAND	-	-	PRESENT	-	-	-	-	-	-	-		-	-	-	-	-	-
FC084_0.1-0.2	FC084	0.1-0.2	405464	08 Jan 2014	Fill_SAND	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
FC084_4.5-4.7	FC084	4.5-4.7	405464	08 Jan 2014	Fill_CLAY	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
FC085_0.2-0.3	FC085	0.2-0.3	405464	08 Jan 2014	Fill_SAND	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
FC086_0.9-1.1	FC086	0.9-1.1	405758	08 Jan 2014	Fill_SAND	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
FC086_1.8-2	FC086	1.8-2	405758	08 Jan 2014	Fill_SAND	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
FC087_0.2-0.3	FC087	0.2-0.3	405464	08 Jan 2014	Fill_SAND	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
FC087_2.7-2.9	FC087	2.7-2.9	405464	08 Jan 2014	Fill_SAND	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-
FC088_0.8-1	FC088	0.8-1	405464	08 Jan 2014	Fill_SAND	-	-	<0.1	-	-	-	-	-	-	-		-	-	-	-	-	-

Table A - Asbestos
Project Number: 69329
Project Name: SSDA Stage 3, 4, 5

						Asbestos - Laboratory Analysis										Asbestos - Field Quantification						
						Approximate Sample Mass	Mass ACM	Mass Asbestos in ACM	Asbestos from ACM in Soil	Mass FA	Mass Asbestos in FA	Mass AF	Mass asbestos in AF	Asbestos from FA & AF in Soil	Mass Asbestos in FA & AF	Quantification Soil Volume	Assumed Bulk Density	ACM Dimensions	Sample Weight	ACM Weight	ACM Quantification (%w/w)
						g	g	g	% (w/w)	g	g	g	g	% (w/w)	g	L	g/cm	mm	g	g	%(w/w)
EQL						-	-	-	<0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
NEPM 2013 Table 7 Res B Soil HSL for Asbestos in Soil									0.04[#1]					0.001[#2]							0.04
Sample ID	Sample Location	Depth Range (m)	Reference	Date	Matrix Description																
Stage 4																					
FC088_2.2-2.4	FC088	2.2-2.4	405464	08 Jan 2014	Fill_SAND	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
FC097_0.2-0.3	FC097	0.2-0.3	405434	08 Jan 2014	Fill_SAND	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
FC097_1.3-1.5	FC097	1.3-1.5	405434	08 Jan 2014	Fill_SAND	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
FC097_2-2.2	FC097	2-2.2	405749	08 Jan 2014	Fill_SAND	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
FC097_3-3.2	FC097	3-3.2	405749	08 Jan 2014	Fill_SAND	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
FC098_0.2-0.3	FC098	0.2-0.3	405434	08 Jan 2014	Fill_SAND	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_0.2-0.3	FC099	0.2-0.3	405478	08 Jan 2014	Fill_SAND	-	-	PRESENT	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_0.5-0.7	FC099	0.5-0.7	405478	08 Jan 2014	Fill_SAND	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_1.5-1.7	FC099	1.5-1.7	405478	08 Jan 2014	Fill_SAND	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_4.5-4.7	FC099	4.5-4.7	405478	08 Jan 2014	Fill_SAND	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_4.5-4.7	FC099	4.5-4.7	406276	08 Jan 2014	Fill_SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_0.2-0.3	FC100	0.2-0.3	405478	08 Jan 2014	Fill_SAND	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_0.4-0.6	FC100	0.4-0.6	405478	08 Jan 2014	Fill_CLAY	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_1.7-1.9	FC100	1.7-1.9	405478	08 Jan 2014	Fill_SAND	-	-	PRESENT	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_4.3-4.5	FC100	4.3-4.5	405478	08 Jan 2014	Fill_SAND	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
FC101_0.5-0.8	FC101	0.5-0.8	405478	08 Jan 2014	Fill_SAND	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
FC101_5.0-5.2	FC101	5.0-5.2	405478	08 Jan 2014	Fill_SAND	-	-	<1,000	-	-	-	-	-	-	-	-	-	-	-	-	-
R35_0.9-1.0	R35	0.9-1.0	Coffey 2011	Coffey 2011	unknown	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
R35_2.9-3	R35	2.9-3	Coffey 2011	Coffey 2011	unknown	-	-	PRESENT	-	-	-	-	-	-	-	-	-	-	-	-	-
Stage 5																					
R12_0.4-0.5	R12	0.4-0.5	Coffey 2011	Coffey 2011	unknown	-	-	PRESENT	-	-	-	-	-	-	-	-	-	-	-	-	-
R12_0.4-0.5	R12	0.4-0.5	Coffey 2011	Coffey 2011	unknown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R12_1.9-2	R12	1.9-2	Coffey 2011	Coffey 2011	unknown	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
R14_0.9-1	R14	0.9-1	Coffey 2011	Coffey 2011	unknown	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
R14_1.9-2	R14	1.9-2	Coffey 2011	Coffey 2011	unknown	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
FC073 0.2-0.3	FC073	0.2-0.3	JBS&G 2014	08 Jan 2014	unknown	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
FC073 1-1.2	FC073	1-1.2	JBS&G 2014	08 Jan 2014	unknown	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
FC073 1.5-1.7	FC073	1.5-1.7	JBS&G 2014	08 Jan 2014	unknown	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
FC074 0.2-0.3	FC074	0.2-0.3	JBS&G 2014	08 Jan 2014	unknown	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
QC04	FC074 0.2-0.3	0.2-0.3	JBS&G 2014	08 Jan 2014	unknown	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
QC04-A	FC074 0.2-0.3	0.2-0.3	JBS&G 2014	08 Jan 2014	unknown	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
FC074 0.8-1	FC074	0.8-1	JBS&G 2014	08 Jan 2014	unknown	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
FC074 3.0-3.2	FC074	3-3.2	JBS&G 2014	08 Jan 2014	unknown	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
FC075 0.6-0.8	FC075	0.6-0.8	JBS&G 2014	08 Jan 2014	unknown	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
FC075 1.0-1.2	FC075	1-1.2	JBS&G 2014	08 Jan 2014	unknown	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-1-0.5-0.6	S5-1	0.5-0.6	JBS&G 2023c	09 Jun 2023	Fill-Gravelly clayey sand, dark brown inc.	976	-	-	<0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
S5-2-0.5-0.6	S5-2	0.5-0.6	JBS&G 2023c	09 Jun 2023	Fill-Gravelly sand, brown inc. igneous	640	-	-	<0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
S5-3-0.3-0.4	S5-3	0.3-0.4	JBS&G 2023c	09 Jun 2023	Fill-Gravelly clayey sand, brown inc.	764	-	-	<0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
IQC2	S5-3	0.3-0.4	JBS&G 2023c	09 Jun 2023		-	-	-	<0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
S5-3-1.0-1.1	S5-3	1-1.1	JBS&G 2023c	09 Jun 2023	Fill-Silty gravelly sand, brown inc. trace	641	-	-	<0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
S5-4-1.0-1.1	S5-4	1-1.1	JBS&G 2023c	09 Jun 2023	Fill-Silty gravelly sand, brown inc. trace	720	-	-	<0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
S5-5-0.5-0.6	S5-5	0.5-0.6	JBS&G 2023c	09 Jun 2023	Fill-Gravelly clayey sand, dark brown inc.	792	-	-	<0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
S5-W1-0.5-0.6	S5-W1	0.5-0.6	JBS&G 2023c	09 Jun 2023	Fill-Gravelly sand, brown inc. organics and	635	-	-	<0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
S5-W1-2.0-2.1	S5-W1	2-2.1	JBS&G 2023c	09 Jun 2023	Fill-Gravelly clay, dark brown inc.	564	-	-	<0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
S5-W2-0.5-0.6	S5-W2	0.5-0.6	JBS&G 2023c	09 Jun 2023	Fill-Gravelly sand, dark brown inc.	603	-	-	<0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
S5-W3-0.3-0.4	S5-W3	0.3-0.4	JBS&G 2023c	09 Jun 2023	Fill-Gravelly sand, brown inc. organics,	717	-	-	<0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-

Env Stds Comments
#1:Residential with minimal opportunites for soil access

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	Metals & Metalloids																	
	Antimony	Arsenic	Barium	Boron	Cadmium	Chromium (III+VI)	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Tin	Vanadium	Zinc
	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	1		1	1		0.1		1				1
NEPM 2013 Table 1A(1) HILs Res B Soil		500		40,000	150	500	600	30,000	1,200	14,000	120		1,200	1,400			60,000
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																	
>=1m, <2m																	
>=2m, <4m																	
>=4m																	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																	
>=1m, <2m																	
>=2m, <4m																	
>=4m																	
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space		100				190		60	1,100				30				70
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																	
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																	
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																	
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																	
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																	

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference															
Stage 4																				
AS04_0.2-0.2	AS04	0.2 - 0.2	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS04_0.6-0.6	AS04	0.6 - 0.6	Internal Road	unkown	EMS 2006	-	6	-	-	-	10	-	4	15	-	-	-	2	-	-	-	69
AS04_2-2	AS04	2 - 2	Internal Road	unkown	EMS 2006	-	-	-	-	-	6	-	59	19	-	-	-	3	-	-	-	77
AS04_2.8-2.8	AS04	1 - 1	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-
BH09_0.2-0.5	BH09	0.2 - 0.5	Internal Road	unkown	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09_3.0-3.5	BH09	3 - 3.5	Internal Road	unkown	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10_1-1	BH10	1 - 1	Internal Road	unkown	EMS 2002	-	<5	-	-	1	20	-	59	130	-	0.07	-	20	-	-	-	1,300
BH10_2-2	BH10	2 - 2	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11_1-1	BH11	1 - 1	Internal Road	unkown	EMS 2002	-	<5	-	-	<0.05	12	-	40	9	-	<0.05	-	15	-	-	-	30
BH514_0.1	BH514	0.1 - 0.2	Internal Road	Fill - SAND	JBS&G 2022	-	5.8	-	-	<0.4	15	-	110	72	-	0.5	-	14	-	-	-	380
BH514_1.0	BH514	1 - 1.1	Internal Road	Fill - SAND	JBS&G 2022	-	5	-	-	<0.4	11	-	96	580	-	0.7	-	12	-	-	-	1,300
BH514_2.0	BH514	2 - 2.1	Internal Road	Fill - SAND	JBS&G 2022	-	11	-	-	0.6	8.9	-	91	190	-	4.1	-	11	-	-	-	910
BH514_3.0	BH514	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	-	9.5	-	-	0.5	10	-	130	180	-	2.6	-	11	-	-	-	1,200
BH514_4.0	BH514	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	9.1	-	-	0.5	34	-	220	220	-	3.9	-	12	-	-	-	1,200
BH514_5.0	BH514	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	2.1	-	-	<0.4	13	-	11	16	-	<0.1	-	<5	-	-	-	45
BH514_5.5	BH514	5.5 - 5.6	Internal Road	Fill - CLAY	JBS&G 2022	-	2.4	-	-	<0.4	14	-	9.2	26	-	0.1	-	<5	-	-	-	100
BH515_0.5	BH515	0.5 - 0.6	Internal Road	Fill - SAND	JBS&G 2022	-	<2	-	-	<0.4	9.1	-	180	15	-	<0.1	-	18	-	-	-	71
BH515_1.5	BH515	1.5 - 1.6	Internal Road	Fill - SAND	JBS&G 2022	-	5.1	-	-	<0.4	21	-	76	330	-	<0.1	-	29	-	-	-	200
BH515_2.5	BH515	2.5 - 2.6	Internal Road	Fill - SAND	JBS&G 2022	-	3.2	-	-	<0.4	19	-	110	88	-	<0.1	-	40	-	-	-	85
BH515_3.5	BH515	3.5 - 3.6	Internal Road	Fill - SAND	JBS&G 2022	-	3.1	-	-	<0.4	21	-	98	160	-	<0.1	-	33	-	-	-	130
BH515_4.5	BH515	4.5 - 4.6	Internal Road	Fill - SAND	JBS&G 2022	-	6.1	-	-	<0.4	21	-	56	450	-	<0.1	-	27	-	-	-	240
BH515_5.5	BH515	5.5 - 5.6	Internal Road	Fill - SAND	JBS&G 2022	-	6.2	-	-	<0.4	26	-	80	360	-	<0.1	-	38	-	-	-	200
BH516_0.5	BH516	0.5 - 0.6	Internal Road	Fill - SAND	JBS&G 2022	-	2.1	-	-	<0.4	11	-	150	32	-	<0.1	-	16	-	-	-	86
BH516_1.5	BH516	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	-	4.9	-	-	<0.4	45	-	42	30	-	<0.1	-	30	-	-	-	86
BH516_2.0	BH516	2 - 2.1	Internal Road	Fill - CLAY	JBS&G 2022	-	5.4	-	-	<0.4	44	-	40	13	-	<0.1	-	27	-	-	-	47
BH516_3.0	BH516	3 - 3.1	Internal Road	Fill - CLAY	JBS&G 2022	-	14	-	-	<0.4	59	-	69	1,900	-	<0.1	-	35	-	-	-	310
BH516_5.0	BH516	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	12	-	-	<0.4	47	-	61	580	-	<0.1	-	36	-	-	-	110
BH516_6.0	BH516	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	-	8.9	-	-	<0.4	28	-	37	490	-	<0.1	-	20	-	-	-	97
BH517_0.5	BH517	0.5 - 0.6	Internal Road	Fill - CLAY	JBS&G 2022	-	4.1	-	-	<0.4	23	-	18	34	-	<0.1	-	7.5	-	-	-	24
BH517_1.5	BH517	1.5 - 1.6	Internal Road	Fill - SAND	JBS&G 2022	-	<2	-	-	<0.4	6.4	-	14	10	-	<0.1	-	16	-	-	-	34
BH517_2.5	BH517	2.5 - 2.6	Internal Road	Fill - SAND	JBS&G 2022	-	5.3	-	-	0.4	12	-	59	84	-	<0.1	-	8.4	-	-	-	160
BH517_3.5	BH517	3.5 - 3.6	Internal Road	Fill - SAND	JBS&G 2022	-	5.2	-	-	<0.4	15	-	47	63	-	<0.1	-	9.3	-	-	-	100
BH517_4.5	BH517	4.5 - 4.6	Internal Road	Fill - CLAY	JBS&G 2022	-	3.8	-	-	<0.4	17	-	110	33	-	<0.1	-	7	-	-	-	55
BH517_5.5	BH517	5.5 - 5.6	Internal Road	Fill - CLAY	JBS&G 2022	-	3.8	-	-	<0.4	41	-	24	68	-	<0.1	-	26	-	-	-	42
BH517_6.5	BH517	6.5 - 6.6	Internal Road	Fill - CLAY	JBS&G 2022	-	4	-	-	<0.4	19	-	48	39	-	<0.1	-	11	-	-	-	77
BH520_1.0	BH520	1 - 1.1	Internal Road	Fill - SAND	JBS&G 2022	-	4.1	-	-	<0.4	21	-	60	40	-	<0.1	-	29	-	-	-	79
BH520_2.0	BH520	2 - 2.1	Internal Road	Fill - SAND	JBS&G 2022	-	2.9	-	-	0.5	14	-	340	280	-	<0.1	-	18	-	-	-	330
BH520_3.0	BH520	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	-	6.9	-	-	0.6	29	-	150	230	-	<0.1	-	49	-	-	-	250
BH520_3.0	BH520	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	8.1	-	-	0.7	31	-	220	330	-	0.4	-	35	-	-	-	400
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_5.0	BH520	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	5.2	-	-	<0.4	18	-	29	140	-	<0.1	-	<5	-	-	-	100
BH520_5.0	BH520	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_6.0	BH520	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	-	8.7	-	-	<0.4	27	-	110	240	-	<0.1	-	11	-	-	-	150
BH520_6.0	BH520	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH9_0.2-0.2	BH9	0.5 - 0.5	Internal Road	unkown	EMS 2002	-	<5	-	-	<0.5	8	-	250	9	-	0.05	-	9	-	-	-	59
BH9_3.0-3.5	BH9	3 - 3.5	Internal Road	Fill - SAND	HLA 2007	-	5	-	-	7.8	14	-	160	1,770	-	0.94	-	20	-	-	-	9,980
BH9_0.2-0.5	BH9	0.2 - 0.5	Internal Road	Fill - SAND	HLA 2007	-	5	-	-	0.3	12	-	120	71	-	0.11	-	13	-	-	-	370
FC099_0.2-0.3	FC099	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	4.5	-	-	0.7	9.1	-	140	130	-	0.14	-	11	-	-	-	380

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	Metals & Metalloids																	
	Antimony	Arsenic	Barium	Boron	Cadmium	Chromium (III+VI)	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Tin	Vanadium	Zinc
	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	1		1	1		0.1		1				1
NEPM 2013 Table 1A(1) HILs Res B Soil		500		40,000	150	500	600	30,000	1,200	14,000	120		1,200	1,400			60,000
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																	
>=1m, <2m																	
>=2m, <4m																	
>=4m																	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																	
>=1m, <2m																	
>=2m, <4m																	
>=4m																	
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space		100				190		60	1,100				30				70
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																	
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																	
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																	
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																	
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																	

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference															
Stage 4																				
FC099_0.2-0.3	FC099	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_0.5-0.7	FC099	0.5 - 0.7	Internal Road	Fill_SAND	JBS&G 2014	-	5.8	-	-	<0.4	5.3	-	26	14	-	0.66	-	8.9	-	-	-	120
FC099_1.5-1.7	FC099	1.5 - 1.7	Internal Road	Fill_SAND	JBS&G 2014	-	2.5	-	-	<0.4	5.1	-	14	19	-	<0.05	-	7.4	-	-	-	63
FC099_4.5-4.7	FC099	4.5 - 4.7	Internal Road	Fill_SAND	JBS&G 2014	-	5	-	-	<0.4	7	-	130	230	-	1.2	-	11	-	-	-	1,300
FC099_4.5-4.7	FC099	4.5 - 4.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_0.2-0.3	FC100	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	3.2	-	-	0.6	18	-	100	110	-	0.1	-	26	-	-	-	110
FC100_0.2-0.3	FC100	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_0.4-0.6	FC100	0.4 - 0.6	Internal Road	Fill_CLAY	JBS&G 2014	-	6.2	-	-	0.6	12	-	90	69	-	0.1	-	16	-	-	-	150
FC100_1.7-1.9	FC100	1.7 - 1.9	Internal Road	Fill_SAND	JBS&G 2014	-	2.1	-	-	0.7	<5	-	18	14	-	<0.05	-	<5	-	-	-	160
FC100_4.3-4.5	FC100	4.3 - 4.5	Internal Road	Fill_SAND	JBS&G 2014	-	3.3	-	-	2.8	12	-	26	950	-	<0.05	-	12	-	-	-	290
FC100_4.3-4.5	FC100	4.3 - 4.5	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC101_0.5-0.8	FC101	0.5 - 0.8	Internal Road	Fill_SAND	JBS&G 2014	-	2.6	-	-	0.5	18	-	190	38	-	0.06	-	32	-	-	-	83
FC101_3-3.2	FC101	3 - 3.2	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC101_5.0-5.2	FC101	5 - 5.2	Internal Road	Fill_SAND	JBS&G 2014	-	7.8	-	-	0.7	11	-	82	150	-	0.15	-	12	-	-	-	270
BH523_10.5	MW523	10.5 - 10.6	Internal Road	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_12.5	MW523	12.5 - 12.6	Internal Road	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_0.5	MW523	0.5 - 0.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_1.0	MW523	1 - 1.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_1.5	MW523	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_8.5	MW523	8.5 - 8.6	Internal Road	SHALE	JBS&G 2022	-	9.4	-	-	<0.4	10	-	7	28	-	<0.1	-	<5	-	-	-	<5
BH523_13.0	MW523	13 - 13.1	Internal Road	CLAY (CL)	JBS&G 2022	-	7.4	-	-	<0.4	7.7	-	29	16	-	<0.1	-	7.6	-	-	-	25
BH523_1.5	MW523	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	-	7.1	-	-	<0.4	17	-	26	59	-	0.1	-	6.3	-	-	-	110
BH523_2.5	MW523	2.5 - 2.6	Internal Road	Fill - Re-Worked Natural	JBS&G 2022	-	17	-	-	<0.4	11	-	6.9	21	-	<0.1	-	<5	-	-	-	14
R35_0.9-1.0	R35	0.9 - 1	Internal Road	Fill - SAND	Coffey 2011	-	4	-	-	0.4	13	-	49	47	-	<0.05	-	11	-	-	-	96
R35_2.9-3	R35	2.9 - 3	Internal Road	Fill - SAND	Coffey 2011	-	16	-	-	1.2	70	-	160	1,600	-	0.1	-	57	-	-	-	410
BH8_0.1-0.2	BH8	0.1 - 0.2	Site 19A	Fill - SAND	HLA 2007	-	<1	-	-	<0.1	19	-	81	3	-	<0.05	-	160	-	-	-	59
BH8_6-6.5	BH8	6 - 6.5	Site 19A	Fill - SAND	HLA 2007	-	3	-	-	0.1	7	-	11	79	-	0.43	-	4	-	-	-	83
BH12_0.2-0.2	BH12	0.2 - 0.2	Site 19A	unkown	EMS 2002	-	<5	-	-	<0.5	<5	-	68	10	-	<0.05	-	4	-	-	-	46
BH513_0.5	BH513	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	3.9	-	-	<0.4	11	-	52	31	-	<0.1	-	12	-	-	-	81
BH513_0.5	BH513	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_1.5	BH513	1.5 - 1.6	Site 19A	Fill - SAND	JBS&G 2022	-	2.8	-	-	<0.4	6.2	-	20	9.3	-	<0.1	-	6.3	-	-	-	23
BH513_1.5	BH513	1.5 - 1.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.0	BH513	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	4.7	-	-	<0.4	11	-	52	24	-	<0.1	-	13	-	-	-	53
BH513_3.0	BH513	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.5	BH513	3.5 - 3.6	Site 19A	Fill - SAND	JBS&G 2022	-	4.7	-	-	<0.4	11	-	49	24	-	<0.1	-	14	-	-	-	63
BH513_3.5	BH513	3.5 - 3.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_4.5	BH513	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	4.2	-	-	<0.4	16	-	72	32	-	<0.1	-	18	-	-	-	84
BH513_4.5	BH513	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_6.0	BH513	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	-	5.2	-	-	<0.4	8.8	-	29	17	-	<0.1	-	11	-	-	-	44
BH513_6.0	BH513	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_0.1	BH518	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	-	<2	-	-	<0.4	6.9	-	150	13	-	<0.1	-	6.8	-	-	-	52
BH518_0.1	BH518	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_1.0	BH518	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	-	4.8	-	-	<0.4	25	-	43	30	-	<0.1	-	27	-	-	-	230
BH518_1.0	BH518	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_2.0	BH518	2 - 2.1	Site 19A	Fill - SAND	JBS&G 2022	-	4.2	-	-	<0.4	17	-	46	44	-	<0.1	-	18	-	-	-	110
BH518_2.0	BH518	2 - 2.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_3.0	BH518	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	2.7	-	-	<0.4	18	-	84	25	-	<0.1	-	19	-	-	-	87
BH518_3.0	BH518	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_4.5	BH518	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	3.4	-	-	<0.4	11	-	96	35	-	<0.1	-	13	-	-	-	130
BH518_4.5	BH518	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	Metals & Metalloids																	
	Antimony	Arsenic	Barium	Boron	Cadmium	Chromium (III+VI)	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Tin	Vanadium	Zinc
	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	1		1	1		0.1		1				1
NEPM 2013 Table 1A(1) HILs Res B Soil		500		40,000	150	500	600	30,000	1,200	14,000	120		1,200	1,400			60,000
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																	
>=1m, <2m																	
>=2m, <4m																	
>=4m																	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																	
>=1m, <2m																	
>=2m, <4m																	
>=4m																	
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space		100				190		60	1,100				30				70
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																	
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																	
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																	
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																	
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																	

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference																
Stage 4																					
BH518_6.0	BH518	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	-	4.5	-	-	<0.4	11	-	61	29	-	<0.1	-	9.8	-	-	-	61
BH6_1-1.5	BH6	1 - 1.5	Site 19A	SAND	HLA 2007	-	<1	-	-	<0.1	1	-	<2	4	-	<0.05	-	<1	-	-	-	9
BH8_0.1-0.1	BH8	0.1 - 0.1	Site 19A	Fill - SAND	Coffey 2011	-	<3	-	-	0.5	100	-	38	6	-	<0.05	-	77	-	-	-	60
BH8_0.5-0.5	BH8	0.2 - 0.4	Site 19A	Fill - Gravel	HLA 2007	-	<5	-	-	<0.5	13	-	26	24	-	<0.05	-	3	-	-	-	54
BH8_2.6-2.9	BH8	2.6 - 2.9	Site 19A	Fill - SAND	HLA 2007	-	2	-	-	<0.1	3	-	9	14	-	0.05	-	<1	-	-	-	49
DUP03_2.6-2.9	BH8_2.6-2.9	2.6 - 2.9	Site 19A	Fill - SAND	HLA 2007	-	7	-	-	<0.1	4	-	17	27	-	0.07	-	1	-	-	-	68
BHP8_0.1-0.1	BHP8	0.1 - 0.1	Site 19A	Fill - CLAY	Coffey 2011	-	<3	-	-	0.5	100	-	38	6	-	<0.05	-	77	-	-	-	60
BHP8_0.5-0.6	BHP8	0.5 - 0.6	Site 19A	Fill - CLAY	Coffey 2011	-	3	-	-	<0.3	27	-	27	15	-	0.06	-	24	-	-	-	46
BHP8_2-2.1	BHP8	2 - 2.1	Site 19A	CLAY (CL)	Coffey 2011	-	4	-	-	0.4	8	-	3	32	-	<0.05	-	0.7	-	-	-	35
FC084_0.1-0.2	FC084	0.1 - 0.2	Site 19A	Fill_SAND	JBS&G 2014	-	4.3	-	-	<0.4	21	-	38	43	-	0.08	-	33	-	-	-	90
FC084_4.5-4.7	FC084	4.5 - 4.7	Site 19A	Fill_CLAY	JBS&G 2014	-	8.8	-	-	<0.4	12	-	17	14	-	<0.05	-	<5	-	-	-	13
FC085_0.2-0.3	FC085	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	4.3	-	-	<0.4	11	-	79	180	-	0.3	-	9.7	-	-	-	130
FC085_0.2-0.3	FC085	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC087_0.2-0.3	FC087	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	6.5	-	-	1	11	-	170	350	-	0.47	-	15	-	-	-	360
FC087_0.2-0.3	FC087	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC087_2.7-2.9	FC087	2.7 - 2.9	Site 19A	Fill_SAND	JBS&G 2014	-	<2	-	-	<0.4	12	-	15	51	-	0.07	-	<5	-	-	-	17
FC087_4.5-4.7	FC087	4.5 - 4.7	Site 19A	Fill_CLAY	JBS&G 2014	-	4.2	-	-	0.8	19	-	36	180	-	0.16	-	7.3	-	-	-	130
FC088_0.8-1	FC088	0.8 - 1	Site 19A	Fill_SAND	JBS&G 2014	-	9.4	-	-	<0.4	5.1	-	40	90	-	0.13	-	9.6	-	-	-	140
FC088_2.2-2.4	FC088	2.2 - 2.4	Site 19A	Fill_SAND	JBS&G 2014	-	<2	-	-	<0.4	<5	-	12	54	-	0.07	-	<5	-	-	-	23
BH521_0.1	MW521	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_1.0	MW521	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_2.0	MW521	2 - 2.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	5.5	-	-	<0.4	22	-	120	120	-	<0.1	-	22	-	-	-	140
QA20220215-PG2	BH521_0.5	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	7	-	-	<0.4	18	-	60	70	-	<0.1	-	18	-	-	-	140
QC20220215-PG2	BH521_0.5	0.5 - 0.5	Site 19A	Fill - SAND	JBS&G 2022	-	4	-	-	<0.4	19	-	48	63	-	0.1	-	29	-	-	-	65
BH521_2.0	MW521	2 - 2.1	Site 19A	Fill - CLAY	JBS&G 2022	-	9.5	-	-	0.8	29	-	130	760	-	0.5	-	12	-	-	-	580
BH521_3.5	MW521	3.5 - 3.6	Site 19A	Fill - Re-Worked Natural	JBS&G 2022	-	4.6	-	-	<0.4	15	-	19	74	-	<0.1	-	<5	-	-	-	66
BH522_0.5	MW522	0.5 - 0.6	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_0.12	MW522	0.12 - 0.22	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	6.6	-	-	<0.4	14	-	33	84	-	0.1	-	<5	-	-	-	37
QC20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220215-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	<4	-	-	<0.4	14	-	110	120	-	0.2	-	9	-	-	-	84
BH522_5.0	MW522	5 - 5.1	Site 19A	SHALE	JBS&G 2022	-	9.6	-	-	<0.4	10	-	6.8	12	-	<0.1	-	<5	-	-	-	<5
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	6.3	-	-	<0.4	22	-	86	220	-	0.3	-	23	-	-	-	280
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.5	MW522	1.5 - 1.6	Site 19A	Fill - Re-Worked Natural	JBS&G 2022	-	14	-	-	<0.4	29	-	15	42	-	<0.1	-	<5	-	-	-	100
BH519_1.0	BH519	1 - 1.1	Site 19B	Fill - SAND	JBS&G 2022	-	8.8	-	-	<0.4	20	-	67	77	-	0.1	-	25	-	-	-	170
BH519_1.0	BH519	1 - 1.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_2.0	BH519	2 - 2.1	Site 19B	Fill - SAND	JBS&G 2022	-	2.9	-	-	<0.4	16	-	27	74	-	<0.1	-	14	-	-	-	67
BH519_2.0	BH519	2 - 2.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_3.0	BH519	3 - 3.1	Site 19B	Fill - CLAY	JBS&G 2022	-	3.7	-	-	<0.4	15	-	25	160	-	0.2	-	<5	-	-	-	170
BH519_3.0	BH519	3 - 3.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_4.0	BH519	4 - 4.1	Site 19B	Fill - CLAY	JBS&G 2022	-	3.5	-	-	0.5	14	-	31	330	-	0.3	-	8.4	-	-	-	510
BH519_4.0	BH519	4 - 4.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_4.0	BH519	4 - 4.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	Metals & Metalloids																	
	Antimony	Arsenic	Barium	Boron	Cadmium	Chromium (III+VI)	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Tin	Vanadium	Zinc
	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	1		1	1		0.1		1				1
NEPM 2013 Table 1A(1) HILs Res B Soil		500		40,000	150	500	600	30,000	1,200	14,000	120		1,200	1,400			60,000
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																	
>=1m, <2m																	
>=2m, <4m																	
>=4m																	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																	
>=1m, <2m																	
>=2m, <4m																	
>=4m																	
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space		100				190		60	1,100				30				70
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																	
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																	
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																	
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																	
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																	

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference															
Stage 4																				
BH519_5.0	BH519	5 - 5.1	Site 19B	Fill - SAND	JBS&G 2022	-	3.1	-	-	<0.4	9.4	-	31	150	-	1.2	-	<5	-	-	-	180
BH519_5.0	BH519	5 - 5.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_6.0	BH519	6 - 6.1	Site 19B	Fill - SAND	JBS&G 2022	-	3.1	-	-	<0.4	8.9	-	50	180	-	4.5	-	<5	-	-	-	230
BH519_6.0	BH519	6 - 6.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_1-1.1	BH7	1 - 1.1	Site 19B	unkown	Coffey 2011	-	6	-	-	0.4	9.9	-	38	55	-	0.05	-	11	-	-	-	160
BH7_2-2.1	BH7	2 - 2.1	Site 19B	unkown	Coffey 2011	-	<3	-	-	<0.3	5.5	-	19	16	-	<0.05	-	8.2	-	-	-	57
BH7_7-7.1	BH7	7 - 7.1	Site 19B	unkown	Coffey 2011	-	<3	-	-	<0.3	6.7	-	24	130	-	0.12	-	5.5	-	-	-	97
BHP7_1-1.1	BHP7	1 - 1.1	Site 19B	Fill - CLAY	Coffey 2011	-	6	-	-	0.4	9.9	-	38	55	-	0.05	-	11	-	-	-	160
BHP7_2-2.1	BHP7	2 - 2.1	Site 19B	Fill - CLAY	Coffey 2011	-	<3	-	-	<0.3	5.5	-	19	16	-	<0.05	-	8.2	-	-	-	57
BHP7_7-7.1	BHP7	7 - 7.1	Site 19B	Fill - CLAY	Coffey 2011	-	<3	-	-	<0.3	6.7	-	24	130	-	0.12	-	5.5	-	-	-	97
FC083_0.5-0.7	FC083	0.5 - 0.7	Site 19B	Fill_SAND	JBS&G 2014	-	2.9	-	-	0.5	35	-	69	43	-	0.06	-	62	-	-	-	130
FC083_0.5-0.7	FC083	0.5 - 0.7	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC083_2-2.2	FC083	2 - 2.2	Site 19B	Fill_SAND	JBS&G 2014	-	20	-	-	3.3	19	-	620	1,400	-	0.5	-	21	-	-	-	1,300
FC083_2-2.2	FC083	2 - 2.2	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC086_0.9-1.1	FC086	0.9 - 1.1	Site 19B	Fill_SAND	JBS&G 2014	-	<2	-	-	0.5	23	-	51	91	-	0.2	-	32	-	-	-	90
FC086_1.8-2	FC086	1.8 - 2	Site 19B	Fill_SAND	JBS&G 2014	-	2.4	-	-	<0.4	8.9	-	11	33	-	0.09	-	<5	-	-	-	37
AS03_0.2-0.2	AS03	0.2 - 0.2	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_0.4-0.4	AS03	0.4 - 0.4	Site 8C	unkown	EMS 2006	-	1.5	-	-	-	10	-	12	5	-	-	-	0.4	-	-	-	4
AS03_1-1	AS03	1 - 1	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_2-2	AS03	2 - 2	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-
BH15_0.1-0.3	BH15	0.1 - 0.3	Site 8C	Fill - SILT	HLA 2007	-	3	-	-	0.2	14	-	17	91	-	0.16	-	4	-	-	-	98
BH15_0.2-0.2	BH15	0.2 - 0.2	Site 8C	unkown	EMS 2002	-	<5	-	-	<0.5	7	-	78	17	-	<0.05	-	9	-	-	-	61
BH16_0.2-0.2	BH16	0.2 - 0.2	Site 8C	unkown	EMS 2002	-	<5	-	-	<0.5	12	-	110	39	-	0.06	-	15	-	-	-	160
BH3_0.2-0.4	BH3	0.2 - 0.4	Site 8C	Fill - SAND	HLA 2007	-	8	-	-	0.2	10	-	81	54	-	0.1	-	22	-	-	-	120
BH3_0.7-0.9	BH3	0.7 - 0.9	Site 8C	Fill - SAND	HLA 2007	-	4	-	-	0.9	6	-	26	12	-	0.07	-	14	-	-	-	460
BH528_0.5	BH528	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH528_0.15	BH528	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220216-PG3	BH528_0.15	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220216-PG3	BH528_0.15	0.15 - 0.25	Site 8C	Fill_SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH529_0.5	BH529	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH529_0.12	BH529	0.12 - 0.22	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220216-PG4	BH529_0.12	0.12 - 0.22	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220216-PG4	BH529_0.12	0.12 - 0.22	Site 8C	Fill_SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP9_0.5-0.6	BHP9	0.5 - 0.6	Site 8C	Fill_CLAY	Coffey 2011	-	7	-	-	0.3	7.1	-	100	100	-	0.11	-	7.5	-	-	-	130
BHP9_0.9-1	BHP9	0.9 - 1	Site 8C	Fill_CLAY	Coffey 2011	-	6	-	-	<0.3	7.6	-	31	21	-	<0.05	-	5.4	-	-	-	21
FC078_0.1-0.2	FC078	0.1 - 0.2	Site 8C	Fill_SAND	JBS&G 2014	-	5.3	-	-	0.9	7.9	-	100	88	-	0.05	-	8.4	-	-	-	490
FC078_2-2.2	FC078	2 - 2.2	Site 8C	Fill_CLAY	JBS&G 2014	-	35	-	-	<0.4	<5	-	17	<5	-	0.07	-	<5	-	-	-	5.3
FC078_4-4.2	FC078	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	-	7.9	-	-	<0.4	<5	-	47	5.6	-	<0.05	-	<5	-	-	-	13
QC16	FC078_4-4.2	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	-	5.1	-	-	<0.4	<5	-	27	<5	-	<0.05	-	<5	-	-	-	11
QC16-A	FC078_4-4.2	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	-	10	-	-	<0.4	7	-	40	12	-	0.1	-	5	-	-	-	20
FC079_0.1-0.2	FC079	0.1 - 0.2	Site 8C	Fill_SAND	JBS&G 2014	-	2.6	-	-	<0.4	5.6	-	13	17	-	<0.05	-	<5	-	-	-	22
FC079_1.8-2	FC079	1.8 - 2	Site 8C	Fill_SAND	JBS&G 2014	-	8.5	-	-	<0.4	7.2	-	2,100	150	-	0.18	-	18	-	-	-	300
FC081_0.2-0.3	FC081	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	2.6	-	-	<0.4	<5	-	150	22	-	<0.05	-	6.5	-	-	-	100
FC081_0.8-1	FC081	0.8 - 1	Site 8C	CLAY	JBS&G 2014	-	<2	-	-	<0.4	10	-	8.9	11	-	<0.05	-	<5	-	-	-	16
FC082_0.2-0.3	FC082	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	4.2	-	-	<0.4	12	-	100	160	-	0.23	-	11	-	-	-	180
FC082_0.2-0.3	FC082	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC082_1.8-2	FC082	1.8 - 2	Site 8C	Fill_CLAY	JBS&G 2014	-	4.7	-	-	<0.4	5.4	-	35	24	-	0.06	-	<5	-	-	-	12
FC082_2.8-3	FC082	2.8 - 3	Site 8C	Fill_CLAY	JBS&G 2014	-	25	-	-	0.6	13	-	77	46	-	0.07	-	14	-	-	-	71
FC097_0.2-0.3	FC097	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	4.3	-	-	0.5	12	-	110	200	-	0.37	-	14	-	-	-	170
FC097_0.2-0.3	FC097	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	Metals & Metalloids																	
	Antimony	Arsenic	Barium	Boron	Cadmium	Chromium (III+VI)	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Tin	Vanadium	Zinc
	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	1		1	1		0.1		1				1
NEPM 2013 Table 1A(1) HILs Res B Soil		500		40,000	150	500	600	30,000	1,200	14,000	120		1,200	1,400			60,000
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																	
>=1m, <2m																	
>=2m, <4m																	
>=4m																	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																	
>=1m, <2m																	
>=2m, <4m																	
>=4m																	
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space		100				190		60	1,100				30				70
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																	
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																	
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																	
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																	
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																	

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference																
Stage 4																					
FC097_1.3-1.5	FC097	1.3 - 1.5	Site 8C	Fill_SAND	JBS&G 2014	-	<2	-	-	<0.4	38	-	26	19	-	<0.05	-	36	-	-	-	71
FC097_2-2.2	FC097	2 - 2.2	Site 8C	Fill_SAND	JBS&G 2014	-	<2	-	-	0.7	5.5	-	8.1	<5	-	<0.05	-	<5	-	-	-	5.8
FC097_3-3.2	FC097	3 - 3.2	Site 8C	Fill_SAND	JBS&G 2014	-	<2	-	-	<0.4	9.3	-	<5	<5	-	<0.05	-	<5	-	-	-	8.5
FC098_0.2-0.3	FC098	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	5.6	-	-	<0.4	8.8	-	120	110	-	0.3	-	13	-	-	-	180
BH524_6.5	MW524	6.5 - 6.6	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_7.0	MW524	7 - 7.1	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_7.5	MW524	7.5 - 7.6	Site 8C	SHALE	JBS&G 2022	-	6.7	-	-	0.7	6.9	-	87	21	-	<0.1	-	24	-	-	-	50
BH524_8.5	MW524	8.5 - 8.6	Site 8C	SHALE	JBS&G 2022	-	11	-	-	0.6	9.9	-	52	22	-	<0.1	-	24	-	-	-	160
BH524_0.1	MW524	0.1 - 0.2	Site 8C	Fill - SAND	JBS&G 2022	-	<2	-	-	<0.4	<5	-	350	12	-	<0.1	-	7.7	-	-	-	82
BH524_0.5	MW524	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_1.5	MW524	1.5 - 1.6	Site 8C	Fill - Re-Worked Natural	JBS&G 2022	-	16	-	-	<0.4	7.6	-	15	31	-	<0.1	-	<5	-	-	-	<5
BH526_3.5	MW526	3.5 - 3.6	Site 8C	SHALE	JBS&G 2022	-	67	-	-	<0.4	11	-	48	23	-	<0.1	-	<5	-	-	-	6.8
BH526_0.5	MW526	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH526_0.15	MW526	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH526_1.0	MW526	1 - 1.1	Site 8C	Fill - SAND	JBS&G 2022	-	4.3	-	-	<0.4	19	-	43	48	-	0.1	-	10	-	-	-	140
BH526_1.5	MW526	1.5 - 1.6	Site 8C	Fill - Re-Worked Natural	JBS&G 2022	-	<2	-	-	<0.4	9.4	-	14	14	-	<0.1	-	<5	-	-	-	32
BH527_0.5	MW527	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH527_1.0	MW527	1 - 1.1	Site 8C	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14_0.2-0.2	BH14	0.2 - 0.2	Site 8D	unknown	EMS 2002	-	7	-	-	<0.5	11	-	170	100	-	0.14	-	9	-	-	-	110
BH14_2-2	BH14	2 - 2	Site 8D	unknown	EMS 2002	-	3	-	-	0.2	14	-	17	91	-	0.16	-	4	-	-	-	98
BH5_0.5-0.7	BH5	0.5 - 0.7	Site 8D	SAND	HLA 2007	-	5	-	-	0.3	8	-	130	120	-	0.17	-	9	-	-	-	150
BH5_0.6-0.8	BH5	0.6 - 0.8	Site 8D	SAND	HLA 2007	-	2	-	-	<0.1	2	-	3	5	-	<0.05	-	<1	-	-	-	<5
BH5_0.8-0.9	BH5	0.8 - 0.9	Site 8D	SAND	HLA 2007	-	2	-	-	<0.1	2	-	3	5	-	<0.05	-	<1	-	-	-	<5
BH1 0.5-0.7	BH5	0.5 - 0.7	Site 8D	SAND	HLA 2007	-	4	-	-	0.3	7	-	93	30	-	0.06	-	9	-	-	-	84
BHP6A_0.5-0.6	BHP6A	0.5 - 0.6	Site 8D	Fill - SILT	Coffey 2011	-	11	-	-	0.4	10	-	90	420	-	0.22	-	8	-	-	-	170
BHP6A_2-2.1	BHP6A	2 - 2.1	Site 8D	Fill - SILT	Coffey 2011	-	12	-	-	<0.3	5.5	-	44	39	-	0.06	-	3.2	-	-	-	88
FC077_0.8-1	FC077	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	-	6	-	-	0.4	8.9	-	90	120	-	0.17	-	7	-	-	-	200
FC077_1-1.2	FC077	1 - 1.2	Site 8D	Fill_SAND	JBS&G 2014	-	<2	-	-	<0.4	<5	-	47	45	-	0.1	-	5.1	-	-	-	120
FC077_2-2.2	FC077	2 - 2.2	Site 8D	Fill_SAND	JBS&G 2014	-	2.8	-	-	0.5	<5	-	53	36	-	0.11	-	<5	-	-	-	110
FC080_0.2-0.3	FC080	0.2 - 0.3	Site 8D	Fill_SAND	JBS&G 2014	-	9	-	-	0.6	13	-	110	250	-	1	-	13	-	-	-	320
FC080_0.8-1	FC080	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	-	7.4	-	-	0.6	11	-	100	250	-	0.35	-	10	-	-	-	250
FC080_0.8-1	FC080	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_0.1	MW525	0.1 - 0.2	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_0.5	MW525	0.5 - 0.6	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_1.0	MW525	1 - 1.1	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_1.0	MW525	1 - 1.1	Site 8D	Fill - SAND	JBS&G 2022	-	9	-	-	0.7	16	-	120	130	-	0.1	-	15	-	-	-	200
BH525_3.5	MW525	3.5 - 3.6	Site 8D	Fill - CLAY	JBS&G 2022	-	11	-	-	<0.4	9.4	-	64	28	-	<0.1	-	7.5	-	-	-	62
Stage 5																					
BH4_0.2	BH4	0.2	Internal Road	unkown	EMS 2002	<5	<5	87	<20	<0.5	12	<5	69	110	130	0.15	<5	9	<5	<20	16	150
R12_0.4-0.5	R12	0.4 - 0.5	Internal Road	Fill - CLAY	Coffey 2011	-	7	-	-	0.93	9.4	-	110	1,200	-	0.14	-	9.7	-	-	-	6,200
R12_1.9-2	R12	1.9 - 2	Internal Road	Fill - CLAY	Coffey 2011	-	5	-	-	<0.3	7.4	-	19	16	-	<0.05	-	2.7	-	-	-	42
R14_0.9-1	R14	0.9 - 1	Internal Road	Fill - SAND	Coffey 2011	-	6	-	-	0.4	7.1	-	430	97	-	0.21	-	7.7	-	-	-	150
R14_1.9-2	R14	1.9 - 2	Internal Road	Fill - CLAY	Coffey 2011	-	4	-	-	<0.3	4.1	-	30	28	-	0.07	-	4.6	-	-	-	160
S5-W1-0.5-0.6	S5-W1	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics and concrete	JBS&G 2023c	-	8.5	-	-	<0.4	31	-	100	59	-	<0.1	-	42	-	-	-	160
S5-W1-0.5-0.6	S5-W1	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W1-2.0-2.1	S5-W1	2 - 2.1	Internal Road	Fill-Gravelly clay, dark brown inc. sandstone gravels	JBS&G 2023c	-	11	-	-	<0.4	6.6	-	8.2	13	-	<0.1	-	<5	-	-	-	9.3

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	Metals & Metalloids																	
	Antimony	Arsenic	Barium	Boron	Cadmium	Chromium (III+VI)	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Tin	Vanadium	Zinc
	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	1		1	1		0.1		1				1
NEPM 2013 Table 1A(1) HILs Res B Soil		500		40,000	150	500	600	30,000	1,200	14,000	120		1,200	1,400			60,000
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																	
>=1m, <2m																	
>=2m, <4m																	
>=4m																	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																	
>=1m, <2m																	
>=2m, <4m																	
>=4m																	
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space		100				190		60	1,100				30				70
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																	
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																	
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																	
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																	
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																	

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference																
Stage 5																					
S5-W3-0.3-0.4	S5-W3	0.3 - 0.4	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	-	16	-	-	0.6	12	-	4,800	430	-	0.2	-	14	-	-	-	540
S5-W3-0.5-0.6	S5-W3	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W3 0.3-0.4	S5-W3	0.3 - 0.4	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH3 2.0-2.2	BH3	2 - 2.2	Site 8A	Fill - CLAY	Coffey 2011	-	7	-	-	0.2	20	-	96	3,980	-	0.56	-	6	-	-	-	310
BH2 1.3-1.5	BH2	1.3 - 1.5	Site 8A	SAND	HLA 2007	-	<1	-	-	<0.1	1	-	2	10	-	<0.05	-	<1	-	-	-	12
BH5_0.2	BH5	0.2	Site 8A	unkown	EMS 2002	<5	<5	80	<20	<0.5	24	6	35	30	180	<0.05	<5	25	<5	<20	22	31
BH5_2.0	BH5	2	Site 8A	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-3-0.3-0.4	S5-3	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	3.0	-	-	<0.4	7.5	-	120	52	-	<0.1	-	11	-	-	-	86
S5-3-0.3-0.4	S5-3	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IQC2	S5-3-0.3-0.4	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IQC2	S5-3-0.3-0.4	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-3-0.5-0.6	S5-3	0.5 - 0.6	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-3-1.0-1.1	S5-3	1 - 1.1	Site 8A	Fill-Silty gravelly sand, brown inc. trace gravels and ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-4-1.0-1.1	S5-4	1 - 1.1	Site 8A	Fill-Silty gravelly sand, brown inc. trace gravels and ash	JBS&G 2023c	-	<2	-	-	<0.4	12	-	35	18	-	<0.1	-	11	-	-	-	84
S5-5-0.0-0.1	S5-5	0 - 0.1	Site 8A	Fill-Gravelly sand, brown inc. roadbase gravels	JBS&G 2023c	-	2.2	-	-	<0.4	13	-	46	22	-	<0.1	-	36	-	-	-	64
S5-5-0.3-0.4	S5-5	0.3 - 0.4	Site 8A	Fill-Gravelly sand, brown inc. roadbase gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-5-0.5-0.6	S5-5	0.5 - 0.6	Site 8A	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W2-0.5-0.6	S5-W2	0.5 - 0.6	Site 8A	Fill-Gravelly sand, dark brown inc. organics and concrete	JBS&G 2023c	-	20	-	-	<0.4	9.1	-	74	32	-	<0.1	-	9.2	-	-	-	120
IQA1	S5-W2-0.5-0.6	0.5 - 0.6	Site 8A	-	JBS&G 2023c	-	7.8	-	-	<0.4	8.9	-	82	32	-	<0.1	-	7.1	-	-	-	82
IQC1	S5-W2-0.5-0.6	0.5 - 0.6	Site 8A	-	JBS&G 2023c	-	10	-	-	<0.4	8	-	77	22	-	<0.1	-	6	-	-	-	65
FC075 0.2-0.3	FC075	0.2 - 0.3	Site 8A	Fill - SAND	JBS&G 2014	-	4.9	-	-	0.5	49	-	75	100	-	0.17	-	46	-	-	-	200
FC075 0.6-0.8	FC075	0.6 - 0.8	Site 8A	Fill - Brick	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC075 0.8-1.0	FC075	0.8 - 1	Site 8A	SAND	JBS&G 2014	-	3.2	-	-	<0.4	<5	-	<5	17	-	<0.05	-	<5	-	-	-	8.8
FC075 1.0-1.2	FC075	1 - 1.2	Site 8A	SAND	JBS&G 2014	-	3.9	-	-	<0.4	<5	-	14	6.1	-	<0.05	-	<5	-	-	-	7.2

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	Metals & Metalloids																	
	Antimony	Arsenic	Barium	Boron	Cadmium	Chromium (III+VI)	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Tin	Vanadium	Zinc
	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	1		1	1		0.1		1				1
NEPM 2013 Table 1A(1) HILs Res B Soil		500		40,000	150	500	600	30,000	1,200	14,000	120		1,200	1,400			60,000
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																	
>=1m, <2m																	
>=2m, <4m																	
>=4m																	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																	
>=1m, <2m																	
>=2m, <4m																	
>=4m																	
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space		100				190		60	1,100				30				70
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																	
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																	
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																	
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																	
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																	

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference																
BH13_0.2	BH13	0.2	Site 8B	unkown	EMS 2002	<5	5	110	<20	<0.5	11	7	100	81	320	0.24	<5	8	<5	<20	36	120
BH6_0.2	BH6	0.2	Site 8B	unkown	EMS 2002	<5	<5	110	<20	<0.5	27	14	130	58	490	0.08	<5	37	<5	<20	44	120
Stage 5																						
BH7_0.2	BH7	0.2	Site 8B	unkown	EMS 2002	<5	16	42	<20	<0.5	15	<5	70	68	120	0.08	<5	10	<5	<20	18	170
S5-1-0.5-0.6	S5-1	0.5 - 0.6	Site 8B	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c	-	<2	-	-	<0.4	<5	-	140	5.8	-	<0.1	-	<5	-	-	-	42
S5-1-0.5-0.6	S5-1	0.5 - 0.6	Site 8B	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-1-2.0-2.1	S5-1	2 - 2.1	Site 8B	Nat-Silty clay, yellow, grey	JBS&G 2023c	-	4.7	-	-	<0.4	7.9	-	23	19	-	<0.1	-	<5	-	-	-	17
S5-2-0.3-0.4	S5-2	0.3 - 0.4	Site 8B	Fill-Gravelly sand, brown inc. igneous roadbase gravels	JBS&G 2023c	-	2.5	-	-	<0.4	5.0	-	220	14	-	<0.1	-	8.2	-	-	-	66
S5-2-0.5-0.6	S5-2	0.5 - 0.6	Site 8B	Fill-Gravelly sand, brown inc. igneous roadbase gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC073 0.2-0.3	FC073	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	-	5.5	-	-	0.6	9.4	-	75	70	-	0.24	-	8.1	-	-	-	140
FC073 1-1.2	FC073	1 - 1.2	Site 8B	Fill - SAND	JBS&G 2014	-	6.4	-	-	1.1	6	-	74	160	-	0.28	-	6.2	-	-	-	420
FC073 1.5-1.7	FC073	1.5 - 1.7	Site 8B	CLAY	JBS&G 2014	-	8.9	-	-	<0.4	8.1	-	34	13	-	0.07	-	<5	-	-	-	6.4
FC074 0.2-0.3	FC074	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	-	8.5	-	-	1.2	11	-	200	110	-	0.15	-	17	-	-	-	490
QC04	FC074_0.2-0.3	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	-	12	-	-	2	13	-	190	110	-	0.15	-	20	-	-	-	630
QC04-A	FC074_0.2-0.3	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	-	9	-	-	1	50	-	110	61	-	<0.1	-	22	-	-	-	350
FC074 0.8-1	FC074	0.8 - 1	Site 8B	SAND	JBS&G 2014	-	15	-	-	<0.4	<5	-	<5	<5	-	<0.05	-	<5	-	-	-	<5
FC074 3.0-3.2	FC074	3 - 3.2	Site 8B	CLAY	JBS&G 2014	-	56	-	-	<0.4	5.1	-	19	<5	-	<0.05	-	<5	-	-	-	15

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	TRHs (NEPC 2013)							BTEXN							
	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	Total BTEX	Naphthalene_VOC
	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	20	50	100	100	50	20	50	0.1	0.1	0.1	0.1	0.2	0.3		0.5
NEPM 2013 Table 1A(1) HILs Res B Soil															
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)						50	280	0.7	480				110		5
>=1m, <2m						90		1					310		
>=2m, <4m						150		2							
>=4m						290		3							
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)						45	110	0.5	160	55			40		3
>=1m, <2m						70	240	0.5	220				60		
>=2m, <4m						110	440	0.5	310				95		
>=4m						200		0.5	540				170		
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space															170
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil			300	2,800		180	120	50	85	70			105		
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil			1,300	5,600		180	120	65	105	125			45		
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil	700	1,000	2,500	10,000											
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil	800	1,000	3,500	10,000											
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses															
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access															
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)															
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses															

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference															
Stage 4																				
AS04_0.2-0.2	AS04	0.2 - 0.2	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	-	-	<1.5	-	-
AS04_0.6-0.6	AS04	0.6 - 0.6	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS04_2-2	AS04	2 - 2	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS04_2.8-2.8	AS04	1 - 1	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	-	-	<1.5	-	-
BH09_0.2-0.5	BH09	0.2 - 0.5	Internal Road	unkown	HLA 2007	-	-	-	-	-	-	-	<2	<0.5	<0.5	<0.1	<0.2	0	-	-
BH09_3.0-3.5	BH09	3 - 3.5	Internal Road	unkown	HLA 2007	-	-	-	-	-	-	-	<2	<0.5	<0.5	<0.1	<0.2	0	-	-
BH10_1-1	BH10	1 - 1	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	-	-	<1.5	-	-
BH10_2-2	BH10	2 - 2	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	-	-	<3	-	-
BH11_1-1	BH11	1 - 1	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	-	-	<1.0	-	-
BH514_0.1	BH514	0.1 - 0.2	Internal Road	Fill - SAND	JBS&G 2022	<20	<50	130	<100	130	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH514_1.0	BH514	1 - 1.1	Internal Road	Fill - SAND	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH514_2.0	BH514	2 - 2.1	Internal Road	Fill - SAND	JBS&G 2022	<20	<50	410	110	520	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH514_3.0	BH514	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	<20	<50	370	110	480	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH514_4.0	BH514	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	<20	<50	370	140	510	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH514_5.0	BH514	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH514_5.5	BH514	5.5 - 5.6	Internal Road	Fill - CLAY	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH515_0.5	BH515	0.5 - 0.6	Internal Road	Fill - SAND	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH515_1.5	BH515	1.5 - 1.6	Internal Road	Fill - SAND	JBS&G 2022	<20	<50	130	<100	130	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH515_2.5	BH515	2.5 - 2.6	Internal Road	Fill - SAND	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH515_3.5	BH515	3.5 - 3.6	Internal Road	Fill - SAND	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH515_4.5	BH515	4.5 - 4.6	Internal Road	Fill - SAND	JBS&G 2022	<20	<50	120	<100	120	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH515_5.5	BH515	5.5 - 5.6	Internal Road	Fill - SAND	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH516_0.5	BH516	0.5 - 0.6	Internal Road	Fill - SAND	JBS&G 2022	<20	<50	100	<100	100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH516_1.5	BH516	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH516_2.0	BH516	2 - 2.1	Internal Road	Fill - CLAY	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH516_3.0	BH516	3 - 3.1	Internal Road	Fill - CLAY	JBS&G 2022	<20	360	480	<100	840	<20	360	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH516_5.0	BH516	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH516_6.0	BH516	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH517_0.5	BH517	0.5 - 0.6	Internal Road	Fill - CLAY	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH517_1.5	BH517	1.5 - 1.6	Internal Road	Fill - SAND	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH517_2.5	BH517	2.5 - 2.6	Internal Road	Fill - SAND	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH517_3.5	BH517	3.5 - 3.6	Internal Road	Fill - SAND	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH517_4.5	BH517	4.5 - 4.6	Internal Road	Fill - CLAY	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH517_5.5	BH517	5.5 - 5.6	Internal Road	Fill - CLAY	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH517_6.5	BH517	6.5 - 6.6	Internal Road	Fill - CLAY	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH520_1.0	BH520	1 - 1.1	Internal Road	Fill - SAND	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH520_2.0	BH520	2 - 2.1	Internal Road	Fill - SAND	JBS&G 2022	<20	570	1,800	<1,000	2,370	<20	565.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH520_3.0	BH520	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	<20	130	570	190	890	<20	129	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH520_3.0	BH520	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	<20	180	690	170	1,040	<20	180	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_5.0	BH520	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH520_5.0	BH520	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_6.0	BH520	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	<20	<50	120	<100	120	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH520_6.0	BH520	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH9_0.2-0.2	BH9	0.5 - 0.5	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH9_3.0-3.5	BH9	3 - 3.5	Internal Road	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<1	0	-	-
BH9_0.2-0.5	BH9	0.2 - 0.5	Internal Road	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<1	0	-	-
FC099_0.2-0.3	FC099	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	<20	<50	110	<100	185	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	TRHs (NEPC 2013)							BTEXN								
	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	Total BTEX	Naphthalene_VOC
	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	20	50	100	100	50	20	50	0.1	0.1	0.1	0.1	0.2	0.3		0.5
NEPM 2013 Table 1A(1) HILs Res B Soil															
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)						50	280	0.7	480				110		5
>=1m, <2m						90		1					310		
>=2m, <4m						150		2							
>=4m						290		3							
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)						45	110	0.5	160	55			40		3
>=1m, <2m						70	240	0.5	220				60		
>=2m, <4m						110	440	0.5	310				95		
>=4m						200		0.5	540				170		
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space															170
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil			300	2,800		180	120	50	85	70			105		
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil			1,300	5,600		180	120	65	105	125			45		
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil	700	1,000	2,500	10,000											
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil	800	1,000	3,500	10,000											
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses															
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access															
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)															
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses															

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference														
Stage 4																			
FC099_0.2-0.3	FC099	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_0.5-0.7	FC099	0.5 - 0.7	Internal Road	Fill_SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-
FC099_1.5-1.7	FC099	1.5 - 1.7	Internal Road	Fill_SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC099_4.5-4.7	FC099	4.5 - 4.7	Internal Road	Fill_SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-	-
FC099_4.5-4.7	FC099	4.5 - 4.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_0.2-0.3	FC100	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC100_0.2-0.3	FC100	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_0.4-0.6	FC100	0.4 - 0.6	Internal Road	Fill_CLAY	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-	-
FC100_1.7-1.9	FC100	1.7 - 1.9	Internal Road	Fill_SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-	-
FC100_4.3-4.5	FC100	4.3 - 4.5	Internal Road	Fill_SAND	JBS&G 2014	<20	86	280	140	506	<20	67	-	-	-	-	-	-	-	-
FC100_4.3-4.5	FC100	4.3 - 4.5	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC101_0.5-0.8	FC101	0.5 - 0.8	Internal Road	Fill_SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC101_3-3.2	FC101	3 - 3.2	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC101_5.0-5.2	FC101	5 - 5.2	Internal Road	Fill_SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
BH523_10.5	MW523	10.5 - 10.6	Internal Road	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_12.5	MW523	12.5 - 12.6	Internal Road	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_0.5	MW523	0.5 - 0.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_1.0	MW523	1 - 1.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_1.5	MW523	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_8.5	MW523	8.5 - 8.6	Internal Road	SHALE	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH523_13.0	MW523	13 - 13.1	Internal Road	CLAY (CL)	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH523_1.5	MW523	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH523_2.5	MW523	2.5 - 2.6	Internal Road	Fill - Re-Worked Natural	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
R35_0.9-1.0	R35	0.9 - 1	Internal Road	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
R35_2.9-3	R35	2.9 - 3	Internal Road	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH8_0.1-0.2	BH8	0.1 - 0.2	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.1	<0.2	<0.3	-	-
BH8_6-6.5	BH8	6 - 6.5	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.1	<0.2	<0.3	-	-
BH12_0.2-0.2	BH12	0.2 - 0.2	Site 19A	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_0.5	BH513	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	<20	<50	120	<100	120	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH513_0.5	BH513	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_1.5	BH513	1.5 - 1.6	Site 19A	Fill - SAND	JBS&G 2022	<20	150	310	<100	460	<20	150	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH513_1.5	BH513	1.5 - 1.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.0	BH513	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	<20	100	240	<100	340	<20	100	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH513_3.0	BH513	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.5	BH513	3.5 - 3.6	Site 19A	Fill - SAND	JBS&G 2022	<20	110	220	<100	330	<20	110	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH513_3.5	BH513	3.5 - 3.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_4.5	BH513	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	<20	190	430	<100	620	<20	190	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH513_4.5	BH513	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_6.0	BH513	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	<20	88	220	<100	308	<20	88	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH513_6.0	BH513	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_0.1	BH518	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH518_0.1	BH518	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_1.0	BH518	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	<20	<50	160	<100	160	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH518_1.0	BH518	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_2.0	BH518	2 - 2.1	Site 19A	Fill - SAND	JBS&G 2022	<20	<50	220	<100	220	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH518_2.0	BH518	2 - 2.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_3.0	BH518	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	<20	<50	190	<100	190	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH518_3.0	BH518	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_4.5	BH518	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH518_4.5	BH518	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	TRHs (NEPC 2013)							BTEXN							
	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	Total BTEX	Naphthalene_VOC
	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	20	50	100	100	50	20	50	0.1	0.1	0.1	0.1	0.2	0.3		0.5
NEPM 2013 Table 1A(1) HILs Res B Soil															
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)						50	280	0.7	480				110		5
>=1m, <2m						90		1					310		
>=2m, <4m						150		2							
>=4m						290		3							
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)						45	110	0.5	160	55			40		3
>=1m, <2m						70	240	0.5	220				60		
>=2m, <4m						110	440	0.5	310				95		
>=4m						200		0.5	540				170		
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space															170
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil			300	2,800		180	120	50	85	70			105		
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil			1,300	5,600		180	120	65	105	125			45		
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil	700	1,000	2,500	10,000											
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil	800	1,000	3,500	10,000											
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses															
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access															
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)															
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses															

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference														
Stage 4																			
BH518_6.0	BH518	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	<20	<50	190	<100	190	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH6_1-1.5	BH6	1 - 1.5	Site 19A	SAND	HLA 2007	-	-	-	-	-	-	-	<2	<0.5	<0.5	<0.1	<0.2	<0.3	-	-
BH8_0.1-0.1	BH8	0.1 - 0.1	Site 19A	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_0.5-0.5	BH8	0.2 - 0.4	Site 19A	Fill - Gravel	HLA 2007	-	-	-	-	-	-	-	<2	<0.5	<0.5	<0.1	<0.2	<0.3	-	-
BH8_2.6-2.9	BH8	2.6 - 2.9	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	<2	<0.5	<0.5	<0.1	<0.2	<0.3	-	-
DUP03_2.6-2.9	BH8_2.6-2.9	2.6 - 2.9	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	<2	<0.5	<0.5	<0.1	<0.2	<0.3	-	-
BHP8_0.1-0.1	BHP8	0.1 - 0.1	Site 19A	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BHP8_0.5-0.6	BHP8	0.5 - 0.6	Site 19A	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BHP8_2-2.1	BHP8	2 - 2.1	Site 19A	CLAY (CL)	Coffey 2011	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
FC084_0.1-0.2	FC084	0.1 - 0.2	Site 19A	Fill_SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC084_4.5-4.7	FC084	4.5 - 4.7	Site 19A	Fill_CLAY	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-	-
FC085_0.2-0.3	FC085	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	<20	<50	130	<100	205	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC085_0.2-0.3	FC085	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC087_0.2-0.3	FC087	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC087_0.2-0.3	FC087	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC087_2.7-2.9	FC087	2.7 - 2.9	Site 19A	Fill_SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC087_4.5-4.7	FC087	4.5 - 4.7	Site 19A	Fill_CLAY	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC088_0.8-1	FC088	0.8 - 1	Site 19A	Fill_SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-	-
FC088_2.2-2.4	FC088	2.2 - 2.4	Site 19A	Fill_SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
BH521_0.1	MW521	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_1.0	MW521	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_2.0	MW521	2 - 2.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
QA20220215-PG2	BH521_0.5	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
QC20220215-PG2	BH521_0.5	0.5 - 0.5	Site 19A	Fill - SAND	JBS&G 2022	<25	<50	<100	<100	<50	<25	<50	<0.2	<0.5	<1	<1	<2	<1	-	-
BH521_2.0	MW521	2 - 2.1	Site 19A	Fill - CLAY	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH521_3.5	MW521	3.5 - 3.6	Site 19A	Fill - Re-Worked Natural	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH522_0.5	MW522	0.5 - 0.6	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_0.12	MW522	0.12 - 0.22	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	<20	<50	190	<100	190	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
QC20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220215-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	<25	<50	220	<100	220	<25	<50	<0.2	<0.5	<1	<1	<2	<1	-	-
BH522_5.0	MW522	5 - 5.1	Site 19A	SHALE	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.5	MW522	1.5 - 1.6	Site 19A	Fill - Re-Worked Natural	JBS&G 2022	<20	<50	100	<100	100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH519_1.0	BH519	1 - 1.1	Site 19B	Fill - SAND	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH519_1.0	BH519	1 - 1.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_2.0	BH519	2 - 2.1	Site 19B	Fill - SAND	JBS&G 2022	<20	<50	110	<100	110	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH519_2.0	BH519	2 - 2.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_3.0	BH519	3 - 3.1	Site 19B	Fill - CLAY	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH519_3.0	BH519	3 - 3.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_4.0	BH519	4 - 4.1	Site 19B	Fill - CLAY	JBS&G 2022	<20	140	1,300	130	1,570	<20	140	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH519_4.0	BH519	4 - 4.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_4.0	BH519	4 - 4.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	TRHs (NEPC 2013)							BTEXN							
	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	Total BTEX	Naphthalene_VOC
	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	20	50	100	100	50	20	50	0.1	0.1	0.1	0.1	0.2	0.3		0.5
NEPM 2013 Table 1A(1) HILs Res B Soil															
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)						50	280	0.7	480				110		5
>=1m, <2m						90		1					310		
>=2m, <4m						150		2							
>=4m						290		3							
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)						45	110	0.5	160	55			40		3
>=1m, <2m						70	240	0.5	220				60		
>=2m, <4m						110	440	0.5	310				95		
>=4m						200		0.5	540				170		
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space															170
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil			300	2,800		180	120	50	85	70			105		
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil			1,300	5,600		180	120	65	105	125			45		
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil	700	1,000	2,500	10,000											
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil	800	1,000	3,500	10,000											
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses															
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access															
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)															
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses															

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference														
Stage 4																			
BH519_5.0	BH519	5 - 5.1	Site 19B	Fill - SAND	JBS&G 2022	<20	<50	180	<100	180	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH519_5.0	BH519	5 - 5.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_6.0	BH519	6 - 6.1	Site 19B	Fill - SAND	JBS&G 2022	<20	<50	150	<100	150	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH519_6.0	BH519	6 - 6.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_1-1.1	BH7	1 - 1.1	Site 19B	unkown	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_2-2.1	BH7	2 - 2.1	Site 19B	unkown	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_7-7.1	BH7	7 - 7.1	Site 19B	unkown	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP7_1-1.1	BHP7	1 - 1.1	Site 19B	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BHP7_2-2.1	BHP7	2 - 2.1	Site 19B	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BHP7_7-7.1	BHP7	7 - 7.1	Site 19B	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
FC083_0.5-0.7	FC083	0.5 - 0.7	Site 19B	Fill_SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC083_0.5-0.7	FC083	0.5 - 0.7	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC083_2-2.2	FC083	2 - 2.2	Site 19B	Fill_SAND	JBS&G 2014	<20	1,500	1,600	160	3,260	<20	1,500	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC083_2-2.2	FC083	2 - 2.2	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC086_0.9-1.1	FC086	0.9 - 1.1	Site 19B	Fill_SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC086_1.8-2	FC086	1.8 - 2	Site 19B	Fill_SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-	-
AS03_0.2-0.2	AS03	0.2 - 0.2	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_0.4-0.4	AS03	0.4 - 0.4	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_1-1	AS03	1 - 1	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_2-2	AS03	2 - 2	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	-	-	<1.5	-	-
BH15_0.1-0.3	BH15	0.1 - 0.3	Site 8C	Fill - SILT	HLA 2007	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.1	<0.2	<0.3	-	-
BH15_0.2-0.2	BH15	0.2 - 0.2	Site 8C	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16_0.2-0.2	BH16	0.2 - 0.2	Site 8C	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH3_0.2-0.4	BH3	0.2 - 0.4	Site 8C	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	<0.2	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH3_0.7-0.9	BH3	0.7 - 0.9	Site 8C	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.1	<0.2	<0.3	-	-
BH528_0.5	BH528	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH528_0.15	BH528	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220216-PG3	BH528_0.15	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220216-PG3	BH528_0.15	0.15 - 0.25	Site 8C	Fill_SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH529_0.5	BH529	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH529_0.12	BH529	0.12 - 0.22	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220216-PG4	BH529_0.12	0.12 - 0.22	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220216-PG4	BH529_0.12	0.12 - 0.22	Site 8C	Fill_SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP9_0.5-0.6	BHP9	0.5 - 0.6	Site 8C	Fill_CLAY	Coffey 2011	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BHP9_0.9-1	BHP9	0.9 - 1	Site 8C	Fill_CLAY	Coffey 2011	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
FC078_0.1-0.2	FC078	0.1 - 0.2	Site 8C	Fill_SAND	JBS&G 2014	<20	<50	<100	140	215	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC078_2-2.2	FC078	2 - 2.2	Site 8C	Fill_CLAY	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC078_4-4.2	FC078	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
QC16	FC078_4-4.2	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
QC16-A	FC078_4-4.2	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	<25	<50	<100	<100	125	-	-	<0.2	<0.5	<1	<1	<2	1.5	2.35	-
FC079_0.1-0.2	FC079	0.1 - 0.2	Site 8C	Fill_SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC079_1.8-2	FC079	1.8 - 2	Site 8C	Fill_SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC081_0.2-0.3	FC081	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC081_0.8-1	FC081	0.8 - 1	Site 8C	CLAY	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC082_0.2-0.3	FC082	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC082_0.2-0.3	FC082	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC082_1.8-2	FC082	1.8 - 2	Site 8C	Fill_CLAY	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC082_2.8-3	FC082	2.8 - 3	Site 8C	Fill_CLAY	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC097_0.2-0.3	FC097	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC097_0.2-0.3	FC097	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	TRHs (NEPC 2013)							BTEXN								
	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	Total BTEX	Naphthalene_VOC
	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	20	50	100	100	50	20	50	0.1	0.1	0.1	0.1	0.2	0.3		0.5
NEPM 2013 Table 1A(1) HILs Res B Soil															
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)						50	280	0.7	480				110		5
>=1m, <2m						90		1					310		
>=2m, <4m						150		2							
>=4m						290		3							
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)						45	110	0.5	160	55			40		3
>=1m, <2m						70	240	0.5	220				60		
>=2m, <4m						110	440	0.5	310				95		
>=4m						200		0.5	540				170		
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space															170
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil			300	2,800		180	120	50	85	70			105		
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil			1,300	5,600		180	120	65	105	125			45		
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil	700	1,000	2,500	10,000											
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil	800	1,000	3,500	10,000											
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses															
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access															
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)															
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses															

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference														
Stage 4																			
FC097_1.3-1.5	FC097	1.3 - 1.5	Site 8C	Fill_SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-	-
FC097_2-2.2	FC097	2 - 2.2	Site 8C	Fill_SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC097_3-3.2	FC097	3 - 3.2	Site 8C	Fill_SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-	-
FC098_0.2-0.3	FC098	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
BH524_6.5	MW524	6.5 - 6.6	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_7.0	MW524	7 - 7.1	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_7.5	MW524	7.5 - 7.6	Site 8C	SHALE	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH524_8.5	MW524	8.5 - 8.6	Site 8C	SHALE	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH524_0.1	MW524	0.1 - 0.2	Site 8C	Fill - SAND	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH524_0.5	MW524	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_1.5	MW524	1.5 - 1.6	Site 8C	Fill - Re-Worked Natural	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH526_3.5	MW526	3.5 - 3.6	Site 8C	SHALE	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH526_0.5	MW526	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH526_0.15	MW526	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH526_1.0	MW526	1 - 1.1	Site 8C	Fill - SAND	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH526_1.5	MW526	1.5 - 1.6	Site 8C	Fill - Re-Worked Natural	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH527_0.5	MW527	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH527_1.0	MW527	1 - 1.1	Site 8C	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14_0.2-0.2	BH14	0.2 - 0.2	Site 8D	unknown	EMS 2002	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	-	-	<0.3	-	-
BH14_2-2	BH14	2 - 2	Site 8D	unknown	EMS 2002	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH5_0.5-0.7	BH5	0.5 - 0.7	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.1	<0.2	<0.3	-	-
BH5_0.6-0.8	BH5	0.6 - 0.8	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.1	<0.2	<0.3	-	-
BH5_0.8-0.9	BH5	0.8 - 0.9	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH1 0.5-0.7	BH5	0.5 - 0.7	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.1	<0.2	<0.3	0.3	-
BHP6A_0.5-0.6	BHP6A	0.5 - 0.6	Site 8D	Fill - SILT	Coffey 2011	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BHP6A_2-2.1	BHP6A	2 - 2.1	Site 8D	Fill - SILT	Coffey 2011	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
FC077_0.8-1	FC077	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC077_1-1.2	FC077	1 - 1.2	Site 8D	Fill_SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-	-
FC077_2-2.2	FC077	2 - 2.2	Site 8D	Fill_SAND	JBS&G 2014	<20	<50	160	<100	235	<20	<50	-	-	-	-	-	-	-	-
FC080_0.2-0.3	FC080	0.2 - 0.3	Site 8D	Fill_SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC080_0.8-1	FC080	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-	-
FC080_0.8-1	FC080	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_0.1	MW525	0.1 - 0.2	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_0.5	MW525	0.5 - 0.6	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_1.0	MW525	1 - 1.1	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_1.0	MW525	1 - 1.1	Site 8D	Fill - SAND	JBS&G 2022	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH525_3.5	MW525	3.5 - 3.6	Site 8D	Fill - CLAY	JBS&G 2022	<20	<50	110	<100	110	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
Stage 5																			
BH4_0.2	BH4	0.2	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R12_0.4-0.5	R12	0.4 - 0.5	Internal Road	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
R12_1.9-2	R12	1.9 - 2	Internal Road	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
R14_0.9-1	R14	0.9 - 1	Internal Road	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
R14_1.9-2	R14	1.9 - 2	Internal Road	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
S5-W1-0.5-0.6	S5-W1	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics and concrete	JBS&G 2023c	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
S5-W1-0.5-0.6	S5-W1	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W1-2.0-2.1	S5-W1	2 - 2.1	Internal Road	Fill-Gravelly clay, dark brown inc. sandstone gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	TRHs (NEPC 2013)							BTEXN								
	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	Total BTEX	Naphthalene_VOC
	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	20	50	100	100	50	20	50	0.1	0.1	0.1	0.1	0.2	0.3		0.5
NEPM 2013 Table 1A(1) HILs Res B Soil															
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)						50	280	0.7	480				110		5
>=1m, <2m						90		1					310		
>=2m, <4m						150		2							
>=4m						290		3							
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)						45	110	0.5	160	55			40		3
>=1m, <2m						70	240	0.5	220				60		
>=2m, <4m						110	440	0.5	310				95		
>=4m						200		0.5	540				170		
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space															170
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil			300	2,800		180	120	50	85	70			105		
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil			1,300	5,600		180	120	65	105	125			45		
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil	700	1,000	2,500	10,000											
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil	800	1,000	3,500	10,000											
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses															
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access															
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)															
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses															

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference														
Stage 5																			
S5-W3-0.3-0.4	S5-W3	0.3 - 0.4	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	<20	<50	240	100	340	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
S5-W3-0.5-0.6	S5-W3	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W3 0.3-0.4	S5-W3	0.3 - 0.4	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH3 2.0-2.2	BH3	2 - 2.2	Site 8A	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.1	<0.2	<0.3	0.3	-
BH2 1.3-1.5	BH2	1.3 - 1.5	Site 8A	SAND	HLA 2007	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.1	<0.2	<0.3	0.3	-
BH5_0.2	BH5	0.2	Site 8A	unkown	EMS 2002	-	-	-	-	-	-	-	0.1	0.1	0.2	-	-	<0.3	-	-
BH5_2.0	BH5	2	Site 8A	unkown	EMS 2002	-	-	-	-	-	-	-	<0.1	<0.1	<0.2	-	-	<0.3	-	-
S5-3-0.3-0.4	S5-3	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	<20	<50	180	160	340	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
S5-3-0.3-0.4	S5-3	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IQC2	S5-3-0.3-0.4	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IQC2	S5-3-0.3-0.4	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-3-0.5-0.6	S5-3	0.5 - 0.6	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-3-1.0-1.1	S5-3	1 - 1.1	Site 8A	Fill-Silty gravelly sand, brown inc. trace gravels and ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-4-1.0-1.1	S5-4	1 - 1.1	Site 8A	Fill-Silty gravelly sand, brown inc. trace gravels and ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-5-0.0-0.1	S5-5	0 - 0.1	Site 8A	Fill-Gravelly sand, brown inc. roadbase gravels	JBS&G 2023c	<20	<50	370	690	1,060	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
S5-5-0.3-0.4	S5-5	0.3 - 0.4	Site 8A	Fill-Gravelly sand, brown inc. roadbase gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-5-0.5-0.6	S5-5	0.5 - 0.6	Site 8A	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W2-0.5-0.6	S5-W2	0.5 - 0.6	Site 8A	Fill-Gravelly sand, dark brown inc. organics and concrete	JBS&G 2023c	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
IQA1	S5-W2-0.5-0.6	0.5 - 0.6	Site 8A	-	JBS&G 2023c	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
IQC1	S5-W2-0.5-0.6	0.5 - 0.6	Site 8A	-	JBS&G 2023c	<25	<50	<100	<100	<50	<25	<50	<0.2	<0.5	<1	<1	<2	<1	-	<1
FC075 0.2-0.3	FC075	0.2 - 0.3	Site 8A	Fill - SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC075 0.6-0.8	FC075	0.6 - 0.8	Site 8A	Fill - Brick	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC075 0.8-1.0	FC075	0.8 - 1	Site 8A	SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC075 1.0-1.2	FC075	1 - 1.2	Site 8A	SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	TRHs (NEPC 2013)							BTEXN								
	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	Total BTEX	Naphthalene_VOC
	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	20	50	100	100	50	20	50	0.1	0.1	0.1	0.1	0.2	0.3		0.5
NEPM 2013 Table 1A(1) HILs Res B Soil															
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)						50	280	0.7	480				110		5
>=1m, <2m						90		1					310		
>=2m, <4m						150		2							
>=4m						290		3							
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)						45	110	0.5	160	55			40		3
>=1m, <2m						70	240	0.5	220				60		
>=2m, <4m						110	440	0.5	310				95		
>=4m						200		0.5	540				170		
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space															170
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil			300	2,800		180	120	50	85	70			105		
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil			1,300	5,600		180	120	65	105	125			45		
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil	700	1,000	2,500	10,000											
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil	800	1,000	3,500	10,000											
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses															
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access															
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)															
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses															

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference														
BH13_0.2	BH13	0.2	Site 8B	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6_0.2	BH6	0.2	Site 8B	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stage 5																			
BH7_0.2	BH7	0.2	Site 8B	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-1-0.5-0.6	S5-1	0.5 - 0.6	Site 8B	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-1-0.5-0.6	S5-1	0.5 - 0.6	Site 8B	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-1-2.0-2.1	S5-1	2 - 2.1	Site 8B	Nat-Silty clay, yellow, grey	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-2-0.3-0.4	S5-2	0.3 - 0.4	Site 8B	Fill-Gravelly sand, brown inc. igneous roadbase gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-2-0.5-0.6	S5-2	0.5 - 0.6	Site 8B	Fill-Gravelly sand, brown inc. igneous roadbase gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC073 0.2-0.3	FC073	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC073 1-1.2	FC073	1 - 1.2	Site 8B	Fill - SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC073 1.5-1.7	FC073	1.5 - 1.7	Site 8B	CLAY	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC074 0.2-0.3	FC074	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
QC04	FC074_0.2-0.3	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
QC04-A	FC074_0.2-0.3	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	<25	<50	<100	<100	125	<25	<50	<0.2	<0.5	<1	<1	<2	1.5	2.35	-
FC074 0.8-1	FC074	0.8 - 1	Site 8B	SAND	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC074 3.0-3.2	FC074	3 - 3.2	Site 8B	CLAY	JBS&G 2014	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-	-

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	PAH																						
	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(b+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	Naphthalene - PAH	Phenanthrene	Pyrene	Carcinogenic PAHs as B(a)P TEQ	PAHs (Sum of total)
	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	0.10	0.10	0.10	0.10	0.05	0.50	0.20		0.10	0.50	0.10	0.10	0.10	0.10	0.10	0.10	0.50	0.10	0.10		0.1
NEPM 2013 Table 1A(1) HILs Res B Soil																				4	400
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																5	5				
>=1m, <2m																					
>=2m, <4m																					
>=4m																					
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																3	3				
>=1m, <2m																					
>=2m, <4m																					
>=4m																					
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																170	170				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil					33																
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil					33																
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																					
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																					
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																					
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																					
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																					
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																					

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference																				
Stage 4																									
AS04_0.2-0.2	AS04	0.2 - 0.2	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS04_0.6-0.6	AS04	0.6 - 0.6	Internal Road	unkown	EMS 2006	<0.1	<0.1	<0.1	<0.1	<0.05	-	-	<0.2	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1
AS04_2-2	AS04	2 - 2	Internal Road	unkown	EMS 2006	<0.1	0.10	0.30	0.50	0.40	-	-	0.70	0.20	-	0.40	<0.1	1.00	<0.1	0.20	<0.1	-	0.70	0.90	-	5.4
AS04_2.8-2.8	AS04	1 - 1	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09_0.2-0.5	BH09	0.2 - 0.5	Internal Road	unkown	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09_3.0-3.5	BH09	3 - 3.5	Internal Road	unkown	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10_1-1	BH10	1 - 1	Internal Road	unkown	EMS 2002	<0.2	<0.2	<0.2	0.20	0.20	-	-	0.40	<0.2	-	0.20	<0.2	0.40	<0.2	<0.2	<0.2	-	0.20	0.40	0.80	2.8
BH10_2-2	BH10	2 - 2	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11_1-1	BH11	1 - 1	Internal Road	unkown	EMS 2002	<0.2	<0.2	0.60	0.60	0.50	-	-	0.90	0.30	-	0.70	<0.2	1.70	<0.2	0.30	<0.2	-	1.90	1.70	1.25	10.5
BH514_0.1	BH514	0.1 - 0.2	Internal Road	Fill - SAND	JBS&G 2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	0.60	<0.5	<0.5	<0.5	0.70	<0.5	<0.5	<0.5	-	<0.5	0.70	0.01	2.0
BH514_1.0	BH514	1 - 1.1	Internal Road	Fill - SAND	JBS&G 2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	0.70	<0.5	<0.5	<0.5	-	<0.5	0.70	0.00	1.4
BH514_2.0	BH514	2 - 2.1	Internal Road	Fill - SAND	JBS&G 2022	<0.5	<0.5	1.60	2.90	3.10	2.20	-	-	1.70	2.60	3.30	0.60	5.80	0.70	1.60	<0.5	-	5.10	6.00	4.68	41.9
BH514_3.0	BH514	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	<0.5	<0.5	1.50	3.10	3.30	2.20	-	-	1.90	2.70	3.90	0.60	6.40	0.60	1.70	<0.5	-	5.10	6.30	4.93	44.2
BH514_4.0	BH514	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	<0.5	<0.5	1.60	3.50	3.80	2.10	-	-	2.40	3.70	4.30	0.60	7.70	0.50	2.00	<0.5	-	5.30	7.60	5.60	50.7
BH514_5.0	BH514	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	<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
BH514_5.5	BH514	5.5 - 5.6	Internal Road	Fill - CLAY	JBS&G 2022	<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
BH515_0.5	BH515	0.5 - 0.6	Internal Road	Fill - SAND	JBS&G 2022	<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
BH515_1.5	BH515	1.5 - 1.6	Internal Road	Fill - SAND	JBS&G 2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	0.90	<0.5	<0.5	<0.5	-	0.50	0.90	<0.5	2.3
BH515_2.5	BH515	2.5 - 2.6	Internal Road	Fill - SAND	JBS&G 2022	<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
BH515_3.5	BH515	3.5 - 3.6	Internal Road	Fill - SAND	JBS&G 2022	<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
BH515_4.5	BH515	4.5 - 4.6	Internal Road	Fill - SAND	JBS&G 2022	<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
BH515_5.5	BH515	5.5 - 5.6	Internal Road	Fill - SAND	JBS&G 2022	<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
BH516_0.5	BH516	0.5 - 0.6	Internal Road	Fill - SAND	JBS&G 2022	<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
BH516_1.5	BH516	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	<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
BH516_2.0	BH516	2 - 2.1	Internal Road	Fill - CLAY	JBS&G 2022	<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
BH516_3.0	BH516	3 - 3.1	Internal Road	Fill - CLAY	JBS&G 2022	<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
BH516_5.0	BH516	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	<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
BH516_6.0	BH516	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	<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
BH517_0.5	BH517	0.5 - 0.6	Internal Road	Fill - CLAY	JBS&G 2022	<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
BH517_1.5	BH517	1.5 - 1.6	Internal Road	Fill - SAND	JBS&G 2022	<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
BH517_2.5	BH517	2.5 - 2.6	Internal Road	Fill - SAND	JBS&G 2022	<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
BH517_3.5	BH517	3.5 - 3.6	Internal Road	Fill - SAND	JBS&G 2022	<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
BH517_4.5	BH517	4.5 - 4.6	Internal Road	Fill - CLAY	JBS&G 2022	<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
BH517_5.5	BH517	5.5 - 5.6	Internal Road	Fill - CLAY	JBS&G 2022	<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
BH517_6.5	BH517	6.5 - 6.6	Internal Road	Fill - CLAY	JBS&G 2022	<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
BH520_1.0	BH520	1 - 1.1	Internal Road	Fill - SAND	JBS&G 2022	<0.5	<0.5	0.50	0.60	0.60	<0.5	-	-	<0.5	0.60	0.70	<0.5	1.50	<0.5	<0.5	<0.5	-	2.10	1.60	0.73	8.9
BH520_2.0	BH520	2 - 2.1	Internal Road	Fill - SAND	JBS&G 2022	35.00	0.90	17.00	7.90	6.70	4.50	-	-	3.20	6.30	8.00	1.20	35.00	18.00	3.10	4.70	-	56.00	32.00	10.19	249.7
BH520_3.0	BH520	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	6.10	<0.5	3.00	1.50	1.20	0.80	-	-	0.60	1.20	1.50	<0.5	6.20	3.40	0.50	1.00	-	12.00	5.60	1.62	46.2
BH520_3.0	BH520	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.70	-	-	-	-	1.7
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	9.20	<0.5	5.00	2.40	2.10	1.50	-	-	1.00	2.30	2.70	<0.5	11.00	5.50	0.90	<0.5	-	21.00	9.60	2.85	77.0
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40	-	-	-	-	-
BH520_5.0	BH520	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	0.80	<0.5	<0.5	<0.5	-	0.90	0.70	0.00	2.4
BH520_5.0	BH520	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_6.0	BH520	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	<0.5	<0.5	0.60	2.10	1.90	1.20	-	-	1.20	1.60	2.10	<0.5	4.40	<0.5	1.00	<0.5	-	2.90	4.30	2.52	25.8
BH520_6.0	BH520	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH9_0.2-0.2	BH9	0.5 - 0.5	Internal Road	unkown	EMS 2002	<0.2	<0.2	<0.2	<0.2	<0.06	-	-	<0.4	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	0.50	0.5
BH9_3.0-3.5	BH9	3 - 3.5	Internal Road	Fill - SAND	HLA 2007	<0.5	<0.9	1.00	3.50	2.90	-	-	5.00	1.70	-	<0.5	<1.6	2.60	<0.5	0.50	<0.5	-	-	2.60	6.37	26.2
BH9_0.2-0.5	BH9	0.2 - 0.5	Internal Road	Fill - SAND	HLA 2007	<0.5	<0.5	<0.6	<1.3	<1.2	-	-	<2	<0.6	-	<0.5	<0.5	0.80	<0.5	<0.5	<0.5	-	-	0.80	2.74	4.3
FC099_0.2-0.3	FC099	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	<0.5	<0.5	<0.5	0.70	0.70	0.80	-	-	<0.5	<0.5	0.60	<0.5	1.20	<0.5	<0.5	<0.5	-	0.60	1.20	1.16	7.0

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	PAH																						
	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(b+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	Naphthalene - PAH	Phenanthrene	Pyrene	Carcinogenic PAHs as B(a)P TEQ	PAHs (Sum of total)
	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	0.10	0.10	0.10	0.10	0.05	0.50	0.20		0.10	0.50	0.10	0.10	0.10	0.10	0.10	0.10	0.50	0.10	0.10		0.1
NEPM 2013 Table 1A(1) HILs Res B Soil																				4	400
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																5	5				
>=1m, <2m																					
>=2m, <4m																					
>=4m																					
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																3	3				
>=1m, <2m																					
>=2m, <4m																					
>=4m																					
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																170	170				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil					33																
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil					33																
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																					
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																					
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																					
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																					
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																					
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																					

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference																			
Stage 4																								
FC099_0.2-0.3	FC099	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_0.5-0.7	FC099	0.5 - 0.7	Internal Road	Fill_SAND	JBS&G 2014	<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	0.61	0.6
FC099_1.5-1.7	FC099	1.5 - 1.7	Internal Road	Fill_SAND	JBS&G 2014	<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	0.61	0.6
FC099_4.5-4.7	FC099	4.5 - 4.7	Internal Road	Fill_SAND	JBS&G 2014	<0.5	<0.5	<0.5	0.90	1.10	1.20	-	-	0.90	0.60	0.80	<0.5	1.40	<0.5	0.70	<0.5	-	0.70	1.30	1.71	11.3
FC099_4.5-4.7	FC099	4.5 - 4.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_0.2-0.3	FC100	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	<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	0.61	0.6
FC100_0.2-0.3	FC100	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_0.4-0.6	FC100	0.4 - 0.6	Internal Road	Fill_CLAY	JBS&G 2014	<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	0.61	0.6
FC100_1.7-1.9	FC100	1.7 - 1.9	Internal Road	Fill_SAND	JBS&G 2014	<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	0.61	0.6
FC100_4.3-4.5	FC100	4.3 - 4.5	Internal Road	Fill_SAND	JBS&G 2014	<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	0.61	0.6
FC100_4.3-4.5	FC100	4.3 - 4.5	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC101_0.5-0.8	FC101	0.5 - 0.8	Internal Road	Fill_SAND	JBS&G 2014	<0.5	<0.5	<0.5	0.70	0.70	0.80	-	-	<0.5	<0.5	0.60	<0.5	1.10	<0.5	<0.5	<0.5	-	<0.5	1.10	1.16	6.2
FC101_3-3.2	FC101	3 - 3.2	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC101_5.0-5.2	FC101	5 - 5.2	Internal Road	Fill_SAND	JBS&G 2014	<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	0.61	0.6
BH523_10.5	MW523	10.5 - 10.6	Internal Road	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_12.5	MW523	12.5 - 12.6	Internal Road	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_0.5	MW523	0.5 - 0.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_1.0	MW523	1 - 1.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_1.5	MW523	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_8.5	MW523	8.5 - 8.6	Internal Road	SHALE	JBS&G 2022	<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	<0.5
BH523_13.0	MW523	13 - 13.1	Internal Road	CLAY (CL)	JBS&G 2022	<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	<0.5
BH523_1.5	MW523	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	<0.5	<0.5	<0.5	1.70	1.60	1.20	-	-	0.70	1.50	1.60	<0.5	3.70	<0.5	0.80	<0.5	<0.5	3.30	3.70	2.14	21.9
BH523_2.5	MW523	2.5 - 2.6	Internal Road	Fill - Re-Worked Natural	JBS&G 2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	0.60	<0.5	<0.5	<0.5	<0.5	0.50	0.60	<0.5	1.7
R35_0.9-1.0	R35	0.9 - 1	Internal Road	Fill - SAND	Coffey 2011	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	<0.1	0.13	<0.1	<0.1	<0.1	-	0.10	0.12	0.50	0.9
R35_2.9-3	R35	2.9 - 3	Internal Road	Fill - SAND	Coffey 2011	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
BH8_0.1-0.2	BH8	0.1 - 0.2	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_6-6.5	BH8	6 - 6.5	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12_0.2-0.2	BH12	0.2 - 0.2	Site 19A	unkown	EMS 2002	<0.2	<0.2	<0.2	<0.2	<0.06	-	-	<0.4	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	0.50	0.5
BH513_0.5	BH513	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	<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
BH513_0.5	BH513	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_1.5	BH513	1.5 - 1.6	Site 19A	Fill - SAND	JBS&G 2022	<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
BH513_1.5	BH513	1.5 - 1.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.0	BH513	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	<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
BH513_3.0	BH513	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.5	BH513	3.5 - 3.6	Site 19A	Fill - SAND	JBS&G 2022	<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
BH513_3.5	BH513	3.5 - 3.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_4.5	BH513	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	<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
BH513_4.5	BH513	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_6.0	BH513	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	<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
BH513_6.0	BH513	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_0.1	BH518	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	<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
BH518_0.1	BH518	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_1.0	BH518	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	<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
BH518_1.0	BH518	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_2.0	BH518	2 - 2.1	Site 19A	Fill - SAND	JBS&G 2022	<0.5	<0.5	<0.5	0.60	0.50	<0.5	-	-	<0.5	<0.5	0.70	<0.5	1.20	<0.5	<0.5	<0.5	-	0.80	1.10	0.57	5.5
BH518_2.0	BH518	2 - 2.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_3.0	BH518	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	<0.5	<0.5	<0.5	0.80	0.70	0.60	-	-	<0.5	0.70	1.00	<0.5	1.70	<0.5	<0.5	<0.5	-	1.00	1.70	0.92	9.1
BH518_3.0	BH518	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_4.5	BH518	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	<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	0.00	<0.5
BH518_4.5	BH518	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	PAH																						
	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(b+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	Naphthalene - PAH	Phenanthrene	Pyrene	Carcinogenic PAHs as B(a)P TEQ	PAHs (Sum of total)
	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	0.10	0.10	0.10	0.10	0.05	0.50	0.20		0.10	0.50	0.10	0.10	0.10	0.10	0.10	0.10	0.50	0.10	0.10		0.1
NEPM 2013 Table 1A(1) HILs Res B Soil																				4	400
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																5	5				
>=1m, <2m																					
>=2m, <4m																					
>=4m																					
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																3	3				
>=1m, <2m																					
>=2m, <4m																					
>=4m																					
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																170	170				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil					33																
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil					33																
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																					
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																					
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																					
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																					
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																					
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																					

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference																			
Stage 4																								
BH518_6.0	BH518	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	<0.5	<0.5	<0.5	0.80	0.70	0.50	-	-	<0.5	0.70	0.80	<0.5	1.60	<0.5	<0.5	<0.5	-	0.90	1.40	0.91	8.3
BH6_1-1.5	BH6	1 - 1.5	Site 19A	SAND	HLA 2007	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_0.1-0.1	BH8	0.1 - 0.1	Site 19A	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_0.5-0.5	BH8	0.2 - 0.4	Site 19A	Fill - Gravel	HLA 2007	<0.2	<0.2	<0.2	<0.2	<0.06	-	-	<0.4	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2
BH8_2.6-2.9	BH8	2.6 - 2.9	Site 19A	Fill - SAND	HLA 2007	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<1	<0.5	-	<0.5	<0.5	0.50	<0.5	<0.5	<0.5	-	-	0.50	0.50	1.5
DUP03_2.6-2.9	BH8_2.6-2.9	2.6 - 2.9	Site 19A	Fill - SAND	HLA 2007	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<1	<0.5	-	<0.5	<0.5	0.80	<0.5	<0.5	<0.5	-	-	0.70	0.50	2.0
BHP8_0.1-0.1	BHP8	0.1 - 0.1	Site 19A	Fill - CLAY	Coffey 2011	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	0.50	0.5
BHP8_0.5-0.6	BHP8	0.5 - 0.6	Site 19A	Fill - CLAY	Coffey 2011	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	0.50	0.5
BHP8_2-2.1	BHP8	2 - 2.1	Site 19A	CLAY (CL)	Coffey 2011	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	0.50	0.5
FC084_0.1-0.2	FC084	0.1 - 0.2	Site 19A	Fill_SAND	JBS&G 2014	<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	0.61	0.6
FC084_4.5-4.7	FC084	4.5 - 4.7	Site 19A	Fill_CLAY	JBS&G 2014	<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	0.61	0.6
FC085_0.2-0.3	FC085	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	<0.5	<0.5	0.60	1.60	1.60	1.00	-	-	1.00	1.90	1.50	<0.5	2.90	<0.5	0.80	<0.5	-	1.40	2.90	2.41	19.6
FC085_0.2-0.3	FC085	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC087_0.2-0.3	FC087	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	<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	0.61	0.6
FC087_0.2-0.3	FC087	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC087_2.7-2.9	FC087	2.7 - 2.9	Site 19A	Fill_SAND	JBS&G 2014	<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	0.61	0.6
FC087_4.5-4.7	FC087	4.5 - 4.7	Site 19A	Fill_CLAY	JBS&G 2014	<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	0.61	0.6
FC088_0.8-1	FC088	0.8 - 1	Site 19A	Fill_SAND	JBS&G 2014	<0.5	<0.5	<0.5	0.70	0.60	0.50	-	-	<0.5	0.70	0.60	<0.5	1.40	<0.5	<0.5	<0.5	-	1.00	1.20	1.07	7.8
FC088_2.2-2.4	FC088	2.2 - 2.4	Site 19A	Fill_SAND	JBS&G 2014	<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	0.61	0.6
BH521_0.1	MW521	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_1.0	MW521	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_2.0	MW521	2 - 2.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	<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	<0.5
QA20220215-PG2	BH521_0.5	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	0.50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5
QC20220215-PG2	BH521_0.5	0.5 - 0.5	Site 19A	Fill - SAND	JBS&G 2022	<0.1	<0.1	<0.1	0.20	0.30	-	0.40	-	0.20	-	0.20	<0.1	0.40	<0.1	0.10	<0.1	-	0.20	0.40	0.33	2.7
BH521_2.0	MW521	2 - 2.1	Site 19A	Fill - CLAY	JBS&G 2022	<0.5	<0.5	<0.5	1.10	1.30	0.80	-	-	0.70	0.90	1.50	<0.5	2.20	<0.5	0.70	<0.5	<0.5	1.30	2.40	1.67	14.6
BH521_3.5	MW521	3.5 - 3.6	Site 19A	Fill - Re-Worked Natural	JBS&G 2022	<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	<0.5
BH522_0.5	MW522	0.5 - 0.6	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_0.12	MW522	0.12 - 0.22	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	<0.5	<0.5	<0.5	1.00	1.00	0.90	-	-	0.60	1.60	1.50	<0.5	1.90	<0.5	0.70	<0.5	<0.5	0.90	1.90	1.44	13.4
QC20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220215-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	<0.1	0.10	0.30	0.90	1.00	-	2.00	-	0.60	-	1.00	0.10	1.70	<0.1	0.70	0.10	-	0.90	1.70	1.28	12.4
BH522_5.0	MW522	5 - 5.1	Site 19A	SHALE	JBS&G 2022	<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	<0.5
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	<0.5	<0.5	<1.1	<6.7	<7.9	<5	-	-	<4.4	<8.1	<8.4	<1.3	<12	<0.5	<4.2	<0.5	0.90	<4.6	<14	0.00	0.9
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.90	-	-	-	-	0.9
BH522_1.5	MW522	1.5 - 1.6	Site 19A	Fill - Re-Worked Natural	JBS&G 2022	<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	<0.5
BH519_1.0	BH519	1 - 1.1	Site 19B	Fill - SAND	JBS&G 2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	0.60	<0.5	0.80	<0.5	<0.5	<0.5	-	0.70	0.80	0.01	2.9
BH519_1.0	BH519	1 - 1.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_2.0	BH519	2 - 2.1	Site 19B	Fill - SAND	JBS&G 2022	<0.5	<0.5	<0.5	0.90	1.00	0.70	-	-	0.70	1.20	1.30	<0.5	1.20	<0.5	0.60	<0.5	-	0.50	1.70	1.36	11.2
BH519_2.0	BH519	2 - 2.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_3.0	BH519	3 - 3.1	Site 19B	Fill - CLAY	JBS&G 2022	<0.5	<0.5	<0.5	1.30	1.10	0.60	-	-	0.70	0.80	1.20	<0.5	<0.5	<0.5	0.50	<0.5	-	0.70	2.30	1.44	10.6
BH519_3.0	BH519	3 - 3.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_4.0	BH519	4 - 4.1	Site 19B	Fill - CLAY	JBS&G 2022	12.00	0.70	37.00	33.00	23.00	17.00	-	-	9.40	24.00	32.00	3.90	100.00	8.80	11.00	<0.5	-	130.00	82.00	35.81	559.6
BH519_4.0	BH519	4 - 4.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_4.0	BH519	4 - 4.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00	-	-	-	-	2.0

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	PAH																					
	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(b+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	Naphthalene - PAH	Phenanthrene	Pyrene	Carcinogenic PAHs as B(a)P TEQ	PAHs (Sum of total)
	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	0.10	0.10	0.10	0.10	0.05	0.50	0.20		0.10	0.50	0.10	0.10	0.10	0.10	0.10	0.10	0.50	0.10	0.10		0.1
NEPM 2013 Table 1A(1) HILs Res B Soil																				4	400
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																5	5				
>=1m, <2m																					
>=2m, <4m																					
>=4m																					
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																3	3				
>=1m, <2m																					
>=2m, <4m																					
>=4m																					
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																170	170				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil					33																
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil					33																
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																					
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																					
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																					
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																					
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																					
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																					

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference																			
Stage 4																								
BH519_5.0	BH519	5 - 5.1	Site 19B	Fill - SAND	JBS&G 2022	<0.5	<0.5	<0.5	1.30	1.30	0.80	-	-	0.70	1.30	1.50	<0.5	2.10	<0.5	0.70	<0.5	-	1.10	2.20	1.73	14.7
BH519_5.0	BH519	5 - 5.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_6.0	BH519	6 - 6.1	Site 19B	Fill - SAND	JBS&G 2022	<0.5	<0.5	<0.5	1.80	1.50	0.90	-	-	0.70	1.20	1.70	<0.5	3.90	<0.5	0.70	<0.5	-	1.80	3.90	1.98	20.1
BH519_6.0	BH519	6 - 6.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_1-1.1	BH7	1 - 1.1	Site 19B	unkown	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_2-2.1	BH7	2 - 2.1	Site 19B	unkown	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_7-7.1	BH7	7 - 7.1	Site 19B	unkown	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP7_1-1.1	BHP7	1 - 1.1	Site 19B	Fill - CLAY	Coffey 2011	<0.1	<0.1	0.38	0.20	0.17	-	-	-	0.10	0.30	0.19	<0.1	0.38	<0.1	0.11	<0.1	-	0.41	0.32	0.69	3.3
BHP7_2-2.1	BHP7	2 - 2.1	Site 19B	Fill - CLAY	Coffey 2011	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	0.50	0.5
BHP7_7-7.1	BHP7	7 - 7.1	Site 19B	Fill - CLAY	Coffey 2011	0.71	3.50	4.40	9.20	6.80	-	-	-	3.10	2.60	5.80	0.66	19.00	4.10	3.50	0.66	-	19.00	17.00	8.34	108.4
FC083_0.5-0.7	FC083	0.5 - 0.7	Site 19B	Fill_SAND	JBS&G 2014	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	0.80	<0.5	<0.5	<0.5	-	0.70	0.70	0.61	2.8
FC083_0.5-0.7	FC083	0.5 - 0.7	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC083_2-2.2	FC083	2 - 2.2	Site 19B	Fill_SAND	JBS&G 2014	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	1.00	<0.5	<0.5	1.00	-	1.30	0.90	0.61	4.8
FC083_2-2.2	FC083	2 - 2.2	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC086_0.9-1.1	FC086	0.9 - 1.1	Site 19B	Fill_SAND	JBS&G 2014	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	0.60	<0.5	<0.5	<0.5	-	<0.5	0.70	0.61	1.9
FC086_1.8-2	FC086	1.8 - 2	Site 19B	Fill_SAND	JBS&G 2014	<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	0.61	0.6
AS03_0.2-0.2	AS03	0.2 - 0.2	Site 8C	unkown	EMS 2006	<0.1	<0.1	<0.1	<0.1	<0.05	-	-	<0.2	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	0.50	0.5
AS03_0.4-0.4	AS03	0.4 - 0.4	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_1-1	AS03	1 - 1	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_2-2	AS03	2 - 2	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15_0.1-0.3	BH15	0.1 - 0.3	Site 8C	Fill - SILT	HLA 2007	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	0.0
BH15_0.2-0.2	BH15	0.2 - 0.2	Site 8C	unkown	EMS 2002	<0.2	<0.2	<0.2	<0.2	<0.06	-	-	<0.4	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	0.50	0.5
BH16_0.2-0.2	BH16	0.2 - 0.2	Site 8C	unkown	EMS 2002	<0.2	<0.2	<0.2	<0.2	0.09	-	-	<0.4	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	0.59	0.7
BH3_0.2-0.4	BH3	0.2 - 0.4	Site 8C	Fill - SAND	HLA 2007	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.50	0.5
BH3_0.7-0.9	BH3	0.7 - 0.9	Site 8C	Fill - SAND	HLA 2007	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.50	0.5
BH528_0.5	BH528	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH528_0.15	BH528	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220216-PG3	BH528_0.15	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220216-PG3	BH528_0.15	0.15 - 0.25	Site 8C	Fill_SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH529_0.5	BH529	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH529_0.12	BH529	0.12 - 0.22	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220216-PG4	BH529_0.12	0.12 - 0.22	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220216-PG4	BH529_0.12	0.12 - 0.22	Site 8C	Fill_SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP9_0.5-0.6	BHP9	0.5 - 0.6	Site 8C	Fill_CLAY	Coffey 2011	<0.1	<0.1	<0.1	<0.1	0.18	-	-	-	0.11	0.12	0.14	<0.1	0.37	<0.1	<0.1	<0.1	-	0.13	0.37	0.68	2.1
BHP9_0.9-1	BHP9	0.9 - 1	Site 8C	Fill_CLAY	Coffey 2011	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	0.50	0.5
FC078_0.1-0.2	FC078	0.1 - 0.2	Site 8C	Fill_SAND	JBS&G 2014	<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	0.61	0.6
FC078_2-2.2	FC078	2 - 2.2	Site 8C	Fill_CLAY	JBS&G 2014	<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	0.61	0.6
FC078_4-4.2	FC078	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	<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	0.61	0.6
QC16	FC078_4-4.2	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	<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	0.61	0.6
QC16-A	FC078_4-4.2	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	<0.1	<0.1	<0.1	<0.1	<0.05	-	-	<0.2	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	0.09	0.1
FC079_0.1-0.2	FC079	0.1 - 0.2	Site 8C	Fill_SAND	JBS&G 2014	<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	0.61	0.6
FC079_1.8-2	FC079	1.8 - 2	Site 8C	Fill_SAND	JBS&G 2014	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	0.60	<0.5	<0.5	<0.5	-	<0.5	0.60	0.61	1.8
FC081_0.2-0.3	FC081	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	<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	0.61	0.6
FC081_0.8-1	FC081	0.8 - 1	Site 8C	CLAY	JBS&G 2014	<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	0.61	0.6
FC082_0.2-0.3	FC082	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	<0.5	<0.5	<0.5	1.10	1.20	0.70	-	-	0.80	1.30	1.00	<0.5	2.00	<0.5	0.70	<0.5	-	1.00	2.00	1.85	13.6
FC082_0.2-0.3	FC082	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC082_1.8-2	FC082	1.8 - 2	Site 8C	Fill_CLAY	JBS&G 2014	<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	0.61	0.6
FC082_2.8-3	FC082	2.8 - 3	Site 8C	Fill_CLAY	JBS&G 2014	<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	0.61	0.6
FC097_0.2-0.3	FC097	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	<0.5	<0.5	<0.5	0.70	0.80	0.60	-	-	<0.5	0.90	0.70	<0.5	1.30	<0.5	<0.5	<0.5	-	0.60	1.30	1.31	8.2
FC097_0.2-0.3	FC097	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

												PAH												
												Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(b+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	Naphthalene - PAH	Phenanthrene	Pyrene	Carcinogenic PAHs as B(a)P TEQ	PAHs (Sum of total)
												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												0.10	0.10	0.10	0.10	0.05	0.50	0.20		0.10	0.50	0.10	0.10	0.10	0.10	0.10	0.10	0.50	0.10	0.10		0.1
NEPM 2013 Table 1A(1) HILs Res B Soil																															4	400
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																											5	5				
>=1m, <2m																																
>=2m, <4m																																
>=4m																																
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																											3	3				
>=1m, <2m																																
>=2m, <4m																																
>=4m																																
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																											170	170				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																33																
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																33																
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																																
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																																
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																																
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																																
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																																
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																																
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																											
Stage 4																																
FC097_1.3-1.5	FC097	1.3 - 1.5	Site 8C	Fill_SAND	JBS&G 2014	<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	0.61	0.6
FC097_2-2.2	FC097	2 - 2.2	Site 8C	Fill_SAND	JBS&G 2014	<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	0.61	0.6
FC097_3-3.2	FC097	3 - 3.2	Site 8C	Fill_SAND	JBS&G 2014	<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	0.61	0.6
FC098_0.2-0.3	FC098	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	<0.5	<0.5	<0.5	0.60	0.60	0.60	-	-	<0.5	0.70	0.60	<0.5	1.30	<0.5	<0.5	<0.5	-	0.90	1.30	1.07	7.7
BH524_6.5	MW524	6.5 - 6.6	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_7.0	MW524	7 - 7.1	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_7.5	MW524	7.5 - 7.6	Site 8C	SHALE	JBS&G 2022	<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	<0.5
BH524_8.5	MW524	8.5 - 8.6	Site 8C	SHALE	JBS&G 2022	<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	<0.5
BH524_0.1	MW524	0.1 - 0.2	Site 8C	Fill - SAND	JBS&G 2022	<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	<0.5
BH524_0.5	MW524	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_1.5	MW524	1.5 - 1.6	Site 8C	Fill - Re-Worked Natural	JBS&G 2022	<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	<0.5
BH526_3.5	MW526	3.5 - 3.6	Site 8C	SHALE	JBS&G 2022	<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	<0.5
BH526_0.5	MW526	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH526_0.15	MW526	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH526_1.0	MW526	1 - 1.1	Site 8C	Fill - SAND	JBS&G 2022	<0.5	<0.5	<0.5	0.80	0.60	1.20	-	-	<0.5	0.70	1.00	<0.5	1.60	<0.5	<0.5	<0.5	<0.5	1.40	1.60	0.88	9.8
BH526_1.5	MW526	1.5 - 1.6	Site 8C	Fill - Re-Worked Natural	JBS&G 2022	<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	<0.5
BH527_0.5	MW527	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH527_1.0	MW527	1 - 1.1	Site 8C	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14_0.2-0.2	BH14	0.2 - 0.2	Site 8D	unknown	EMS 2002	<0.2	<0.2	<0.2	<0.2	<0.06	-	-	<0.4	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	0.50	0.5
BH14_2-2	BH14	2 - 2	Site 8D	unknown	EMS 2002	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.50	0.5
BH5_0.5-0.7	BH5	0.5 - 0.7	Site 8D	SAND	HLA 2007	-	-	-	-	0.90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.90	1.8
BH5_0.6-0.8	BH5	0.6 - 0.8	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.8-0.9	BH5	0.8 - 0.9	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH1 0.5-0.7	BH5	0.5 - 0.7	Site 8D	SAND	HLA 2007	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
BHP6A_0.5-0.6	BHP6A	0.5 - 0.6	Site 8D	Fill - SILT	Coffey 2011	-	-	-	-	1.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.60	2.7
BHP6A_2-2.1	BHP6A	2 - 2.1	Site 8D	Fill - SILT	Coffey 2011	-	-	-	-	1.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.60	2.7
FC077_0.8-1	FC077	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	<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	0.61	0.6
FC077_1-1.2	FC077	1 - 1.2	Site 8D	Fill_SAND	JBS&G 2014	<0.5	<0.5	<0.5	<0.5	0.80	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	1.16	2.0
FC077_2-2.2	FC077	2 - 2.2	Site 8D	Fill_SAND	JBS&G 2014	<0.5	<0.5	<0.5	1.00	<0.5	0.80	-	-	<0.5	<0.5	1.00	<0.5	1.80	<0.5	<0.5	<0.5	-	3.10	1.10	0.74	9.5
FC080_0.2-0.3	FC080	0.2 - 0.3	Site 8D	Fill_SAND	JBS&G 2014	<0.5	<0.5	<0.5	1.20	1.30	1.00	-	-	0.90	1.30	1.10	<0.5	1.80	<0.5	0.70	<0.5	-	0.60	1.90	1.99	13.8
FC080_0.8-1	FC080	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	<0.5	<0.5	<0.5	1.50	1.60	0.90	-	-	1.00	1.70	1.40	<0.5	2.60	<0.5	0.80	<0.5	-	1.20	2.70	2.36	17.8
FC080_0.8-1	FC080	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_0.1	MW525	0.1 - 0.2	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_0.5	MW525	0.5 - 0.6	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_1.0	MW525	1 - 1.1	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_1.0	MW525	1 - 1.1	Site 8D	Fill - SAND	JBS&G 2022	<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	<0.5
BH525_3.5	MW525	3.5 - 3.6	Site 8D	Fill - CLAY	JBS&G 2022	<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	<0.5
Stage 5																										
BH4_0.2	BH4	0.2	Internal Road	unkown	EMS 2002	<0.2	<0.2	<0.2	<0.2	0.20	-	-	0.40	<0.2	-	<0.2	<0.2	0.40	<0.2	<0.2	<0.2	-	<0.2	0.40	-	1.4
R12_0.4-0.5	R12	0.4 - 0.5	Internal Road	Fill - CLAY	Coffey 2011	-	-	-	-	0.30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.30	0.6
R12_1.9-2	R12	1.9 - 2	Internal Road	Fill - CLAY	Coffey 2011	-	-	-	-	0.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.12	0.2
R14_0.9-1	R14	0.9 - 1	Internal Road	Fill - SAND	Coffey 2011	-	-	-	-	0.42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.42	0.8
R14_1.9-2	R14	1.9 - 2	Internal Road	Fill - CLAY	Coffey 2011	-	-	-	-	0.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.12	0.2
S5-W1-0.5-0.6	S5-W1	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics and concrete	JBS&G 2023c	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	0.70	<0.5	<0.5	<0.5	-	0.60	0.80	-	2.1
S5-W1-0.5-0.6	S5-W1	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W1-2.0-2.1	S5-W1	2 - 2.1	Internal Road	Fill-Gravelly clay, dark brown inc. sandstone gravels	JBS&G 2023c	<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

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

						PAH																	
						Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(b+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	Naphthalene - PAH	Phenanthrene	Pyrene	Carcinogenic PAHs as B(a)P TEQ	PAHs (Sum of total)
						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						0.10	0.10	0.10	0.10	0.05	0.50	0.20		0.10	0.50	0.10	0.10	0.10	0.10	0.10	0.10	0.50	0.10	0.10		0.1
NEPM 2013 Table 1A(1) HILs Res B Soil																								4	400
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																					5	5			
>=1m, <2m																									
>=2m, <4m																									
>=4m																									
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																					3	3			
>=1m, <2m																									
>=2m, <4m																									
>=4m																									
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																					170	170			
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil										33															
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil										33															
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																									
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																									
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																									
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																									
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																									
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																									
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																				
Stage 5																									
S5-W3-0.3-0.4	S5-W3	0.3 - 0.4	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	<0.5	1.20	3.70	6.00	5.90	4.10	-	-	3.40	5.80	6.10	0.70	14.00	1.10	2.60	0.80	-	13.00	13.00	-	81.4
S5-W3-0.5-0.6	S5-W3	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W3 0.3-0.4	S5-W3	0.3 - 0.4	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH3 2.0-2.2	BH3	2 - 2.2	Site 8A	Fill - CLAY	Coffey 2011	-	-	-	-	1.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2
BH2 1.3-1.5	BH2	1.3 - 1.5	Site 8A	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.2	BH5	0.2	Site 8A	unkown	EMS 2002	<0.2	<0.2	<0.2	<0.2	<0.06	-	-	<0.4	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	-	<0.2
BH5_2.0	BH5	2	Site 8A	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-3-0.3-0.4	S5-3	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	0.60	<0.5	0.70	<0.5	<0.5	<0.5	-	<0.5	0.70	-	2.0
S5-3-0.3-0.4	S5-3	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IQC2	S5-3-0.3-0.4	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IQC2	S5-3-0.3-0.4	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-3-0.5-0.6	S5-3	0.5 - 0.6	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-3-1.0-1.1	S5-3	1 - 1.1	Site 8A	Fill-Silty gravelly sand, brown inc. trace gravels and ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-4-1.0-1.1	S5-4	1 - 1.1	Site 8A	Fill-Silty gravelly sand, brown inc. trace gravels and ash	JBS&G 2023c	<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
S5-5-0.0-0.1	S5-5	0 - 0.1	Site 8A	Fill-Gravelly sand, brown inc. roadbase gravels	JBS&G 2023c	<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
S5-5-0.3-0.4	S5-5	0.3 - 0.4	Site 8A	Fill-Gravelly sand, brown inc. roadbase gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-5-0.5-0.6	S5-5	0.5 - 0.6	Site 8A	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W2-0.5-0.6	S5-W2	0.5 - 0.6	Site 8A	Fill-Gravelly sand, dark brown inc. organics and concrete	JBS&G 2023c	<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
IQA1	S5-W2-0.5-0.6	0.5 - 0.6	Site 8A	-	JBS&G 2023c	<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
IQC1	S5-W2-0.5-0.6	0.5 - 0.6	Site 8A	-	JBS&G 2023c	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.2	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1
FC075 0.2-0.3	FC075	0.2 - 0.3	Site 8A	Fill - SAND	JBS&G 2014	<0.5	<0.5	<0.5	0.60	0.70	<0.5	-	-	<0.5	0.80	0.60	<0.5	1.10	<0.5	<0.5	<0.5	-	<0.5	1.10	1.15	6.0
FC075 0.6-0.8	FC075	0.6 - 0.8	Site 8A	Fill - Brick	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC075 0.8-1.0	FC075	0.8 - 1	Site 8A	SAND	JBS&G 2014	<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	0.61	0.6
FC075 1.0-1.2	FC075	1 - 1.2	Site 8A	SAND	JBS&G 2014	<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	0.61	0.6

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

					PAH																		
					Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(b+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	Naphthalene - PAH	Phenanthrene	Pyrene	Carcinogenic PAHs as B(a)P TEQ	PAHs (Sum of total)
					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					0.10	0.10	0.10	0.10	0.05	0.50	0.20		0.10	0.50	0.10	0.10	0.10	0.10	0.10	0.10	0.50	0.10	0.10		0.1
NEPM 2013 Table 1A(1) HILs Res B Soil																							4	400
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																			5	5				
>=1m, <2m																								
>=2m, <4m																								
>=4m																								
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																			3	3				
>=1m, <2m																								
>=2m, <4m																								
>=4m																								
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																			170	170				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil									33															
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil									33															
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																								
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																								
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																								
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																								
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																								
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																								
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																			
BH13_0.2	BH13	0.2	Site 8B	unkown	EMS 2002	<0.2	<0.2	<0.2	0.70	0.60	-	-	1.30	0.40	-	0.70	<0.2	1.20	<0.2	0.40	<0.2	-	0.50	1.10	-	6.9
BH6_0.2	BH6	0.2	Site 8B	unkown	EMS 2002	<0.2	<0.2	<0.2	<0.2	<0.06	-	-	<0.4	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	-	<0.2
Stage 5																								
BH7_0.2	BH7	0.2	Site 8B	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-1-0.5-0.6	S5-1	0.5 - 0.6	Site 8B	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c	<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
S5-1-0.5-0.6	S5-1	0.5 - 0.6	Site 8B	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-1-2.0-2.1	S5-1	2 - 2.1	Site 8B	Nat-Silty clay, yellow, grey	JBS&G 2023c	<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
S5-2-0.3-0.4	S5-2	0.3 - 0.4	Site 8B	Fill-Gravelly sand, brown inc. igneous roadbase gravels	JBS&G 2023c	<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
S5-2-0.5-0.6	S5-2	0.5 - 0.6	Site 8B	Fill-Gravelly sand, brown inc. igneous roadbase gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC073 0.2-0.3	FC073	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	<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	0.61	0.6
FC073 1-1.2	FC073	1 - 1.2	Site 8B	Fill - SAND	JBS&G 2014	<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	0.61	0.6
FC073 1.5-1.7	FC073	1.5 - 1.7	Site 8B	CLAY	JBS&G 2014	<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	0.61	0.6
FC074 0.2-0.3	FC074	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	<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	0.61	0.6
QC04	FC074_0.2-0.3	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	<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	0.61	0.6
QC04-A	FC074_0.2-0.3	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	<0.1	<0.1	<0.1	0.20	0.26	-	-	0.50	0.20	-	0.20	<0.1	0.40	<0.1	0.20	<0.1	-	0.20	0.40	0.35	2.9
FC074 0.8-1	FC074	0.8 - 1	Site 8B	SAND	JBS&G 2014	<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	0.61	0.6
FC074 3.0-3.2	FC074	3 - 3.2	Site 8B	CLAY	JBS&G 2014	<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	0.61	0.6

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

JBS&G

	Organochlorine Pesticides																												
	4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	Chlordane (cis)	Chlordane (trans)	DDT	DDE	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Hexachlorobenzene	Methoxychlor	Toxaphene
	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	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.05		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		0.05	0.05	0.05	0.05	0.5
NEPM 2013 Table 1A(1) HILs Res B Soil								10	90						600				20				10		15	500	30
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																											
>=1m, <2m																											
>=2m, <4m																											
>=4m																											
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																											
>=1m, <2m																											
>=2m, <4m																											
>=4m																											
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space												180															
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																											
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																											
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																											
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																											
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																											
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																											
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																											
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																											

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference																									
Stage 4																														
AS04_0.2-0.2	AS04	0.2 - 0.2	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS04_0.6-0.6	AS04	0.6 - 0.6	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS04_2-2	AS04	2 - 2	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS04_2.8-2.8	AS04	1 - 1	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09_0.2-0.5	BH09	0.2 - 0.5	Internal Road	unkown	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09_3.0-3.5	BH09	3 - 3.5	Internal Road	unkown	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10_1-1	BH10	1 - 1	Internal Road	unkown	EMS 2002	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	-	<0.05	<0.05	<0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	-	<0.2	-
BH10_2-2	BH10	2 - 2	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11_1-1	BH11	1 - 1	Internal Road	unkown	EMS 2002	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	-	<0.05	<0.05	<0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	-	<0.2	-
BH514_0.1	BH514	0.1 - 0.2	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_1.0	BH514	1 - 1.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_2.0	BH514	2 - 2.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_3.0	BH514	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_4.0	BH514	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_5.0	BH514	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_5.5	BH514	5.5 - 5.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_0.5	BH515	0.5 - 0.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_1.5	BH515	1.5 - 1.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_2.5	BH515	2.5 - 2.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_3.5	BH515	3.5 - 3.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_4.5	BH515	4.5 - 4.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_5.5	BH515	5.5 - 5.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_0.5	BH516	0.5 - 0.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_1.5	BH516	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_2.0	BH516	2 - 2.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_3.0	BH516	3 - 3.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_5.0	BH516	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_6.0	BH516	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_0.5	BH517	0.5 - 0.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_1.5	BH517	1.5 - 1.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_2.5	BH517	2.5 - 2.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_3.5	BH517	3.5 - 3.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_4.5	BH517	4.5 - 4.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_5.5	BH517	5.5 - 5.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_6.5	BH517	6.5 - 6.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_1.0	BH520	1 - 1.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_2.0	BH520	2 - 2.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_3.0	BH520	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_3.0	BH520	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_5.0	BH520	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_5.0	BH520	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_6.0	BH520	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_6.0	BH520	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH9_0.2-0.2	BH9	0.5 - 0.5	Internal Road	unkown	EMS 2002	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	-	<0.05	<0.05	<0.3	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	<0.05	<0.05	-	<0.2	-
BH9_3.0-3.5	BH9	3 - 3.5	Internal Road	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH9_0.2-0.5	BH9	0.2 - 0.5	Internal Road	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_0.2-0.3	FC099	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	Organochlorine Pesticides																												
	4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	Chlordane (cis)	Chlordane (trans)	DDT	DDE	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Hexachlorobenzene	Methoxychlor	Toxaphene
	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	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.05		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		0.05	0.05	0.05	0.05	0.5
NEPM 2013 Table 1A(1) HILs Res B Soil								10	90						600				20				10		15	500	30
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																											
>=1m, <2m																											
>=2m, <4m																											
>=4m																											
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																											
>=1m, <2m																											
>=2m, <4m																											
>=4m																											
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space												180															
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																											
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																											
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																											
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																											
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																											
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																											
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																											
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																											

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference																								
Stage 4																													
FC099_0.2-0.3	FC099	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_0.5-0.7	FC099	0.5 - 0.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_1.5-1.7	FC099	1.5 - 1.7	Internal Road	Fill_SAND	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC099_4.5-4.7	FC099	4.5 - 4.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_4.5-4.7	FC099	4.5 - 4.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_0.2-0.3	FC100	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	0.14	0.16	0.36	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	0.23	<0.2	<1
FC100_0.2-0.3	FC100	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_0.4-0.6	FC100	0.4 - 0.6	Internal Road	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_1.7-1.9	FC100	1.7 - 1.9	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_4.3-4.5	FC100	4.3 - 4.5	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_4.3-4.5	FC100	4.3 - 4.5	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC101_0.5-0.8	FC101	0.5 - 0.8	Internal Road	Fill_SAND	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC101_3-3.2	FC101	3 - 3.2	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC101_5.0-5.2	FC101	5 - 5.2	Internal Road	Fill_SAND	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
BH523_10.5	MW523	10.5 - 10.6	Internal Road	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_12.5	MW523	12.5 - 12.6	Internal Road	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_0.5	MW523	0.5 - 0.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_1.0	MW523	1 - 1.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_1.5	MW523	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_8.5	MW523	8.5 - 8.6	Internal Road	SHALE	JBS&G 2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.5
BH523_13.0	MW523	13 - 13.1	Internal Road	CLAY (CL)	JBS&G 2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.5
BH523_1.5	MW523	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.5
BH523_2.5	MW523	2.5 - 2.6	Internal Road	Fill - Re-Worked Natural	JBS&G 2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.5
R35_0.9-1.0	R35	0.9 - 1	Internal Road	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R35_2.9-3	R35	2.9 - 3	Internal Road	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_0.1-0.2	BH8	0.1 - 0.2	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_6-6.5	BH8	6 - 6.5	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12_0.2-0.2	BH12	0.2 - 0.2	Site 19A	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_0.5	BH513	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_0.5	BH513	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_1.5	BH513	1.5 - 1.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_1.5	BH513	1.5 - 1.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.0	BH513	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.0	BH513	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.5	BH513	3.5 - 3.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.5	BH513	3.5 - 3.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_4.5	BH513	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_4.5	BH513	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_6.0	BH513	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_6.0	BH513	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_0.1	BH518	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_0.1	BH518	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_1.0	BH518	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_1.0	BH518	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_2.0	BH518	2 - 2.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_2.0	BH518	2 - 2.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_3.0	BH518	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_3.0	BH518	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_4.5	BH518	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_4.5	BH518	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

JBS&G

	Organochlorine Pesticides																												
	4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	Chlordane (cis)	Chlordane (trans)	DDT	DDE	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Hexachlorobenzene	Methoxychlor	Toxaphene
	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	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.05		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		0.05	0.05	0.05	0.05	0.5
NEPM 2013 Table 1A(1) HILs Res B Soil								10	90						600				20				10		15	500	30
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																												
>=1m, <2m																												
>=2m, <4m																												
>=4m																												
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																												
>=1m, <2m																												
>=2m, <4m																												
>=4m																												
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space												180																
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																												
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																												
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																												
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																												
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																												
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																												
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																												
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																												
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																								
Stage 4																													
BH518_6.0	BH518	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6_1-1.5	BH6	1 - 1.5	Site 19A	SAND	HLA 2007	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	-	<0.2	<1
BH8_0.1-0.1	BH8	0.1 - 0.1	Site 19A	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_0.5-0.5	BH8	0.2 - 0.4	Site 19A	Fill - Gravel	HLA 2007	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	-	0.12	0.41	0.73	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	-	<0.2	-
BH8_2.6-2.9	BH8	2.6 - 2.9	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP03_2.6-2.9	BH8_2.6-2.9	2.6 - 2.9	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP8_0.1-0.1	BHP8	0.1 - 0.1	Site 19A	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP8_0.5-0.6	BHP8	0.5 - 0.6	Site 19A	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP8_2-2.1	BHP8	2 - 2.1	Site 19A	CLAY (CL)	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC084_0.1-0.2	FC084	0.1 - 0.2	Site 19A	Fill_SAND	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC084_4.5-4.7	FC084	4.5 - 4.7	Site 19A	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC085_0.2-0.3	FC085	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC085_0.2-0.3	FC085	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC087_0.2-0.3	FC087	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC087_0.2-0.3	FC087	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC087_2.7-2.9	FC087	2.7 - 2.9	Site 19A	Fill_SAND	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC087_4.5-4.7	FC087	4.5 - 4.7	Site 19A	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC088_0.8-1	FC088	0.8 - 1	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC088_2.2-2.4	FC088	2.2 - 2.4	Site 19A	Fill_SAND	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
BH521_0.1	MW521	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_1.0	MW521	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_2.0	MW521	2 - 2.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.5
QA20220215-PG2	BH521_0.5	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.5
QC20220215-PG2	BH521_0.5	0.5 - 0.5	Site 19A	Fill - SAND	JBS&G 2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	<0.1	<0.1	-
BH521_2.0	MW521	2 - 2.1	Site 19A	Fill - CLAY	JBS&G 2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.5
BH521_3.5	MW521	3.5 - 3.6	Site 19A	Fill - Re-Worked Natural	JBS&G 2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.5
BH522_0.5	MW522	0.5 - 0.6	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_0.12	MW522	0.12 - 0.22	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.5
QC20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220215-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	<0.1	<0.1	-
BH522_5.0	MW522	5 - 5.1	Site 19A	SHALE	JBS&G 2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.5
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	-	-	<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	<10
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.5	MW522	1.5 - 1.6	Site 19A	Fill - Re-Worked Natural	JBS&G 2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.5
BH519_1.0	BH519	1 - 1.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_1.0	BH519	1 - 1.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_2.0	BH519	2 - 2.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_2.0	BH519	2 - 2.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_3.0	BH519	3 - 3.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_3.0	BH519	3 - 3.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_4.0	BH519	4 - 4.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_4.0	BH519	4 - 4.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	Organochlorine Pesticides																												
	4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	Chlordane (cis)	Chlordane (trans)	DDT	DDE	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Hexachlorobenzene	Methoxychlor	Toxaphene
	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	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.05		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		0.05	0.05	0.05	0.05	0.5
NEPM 2013 Table 1A(1) HILs Res B Soil								10	90						600				20				10		15	500	30
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																											
>=1m, <2m																											
>=2m, <4m																											
>=4m																											
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																											
>=1m, <2m																											
>=2m, <4m																											
>=4m																											
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space												180															
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																											
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																											
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																											
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																											
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																											
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																											
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																											
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																											
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																								
Stage 4																													
BH519_5.0	BH519	5 - 5.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_5.0	BH519	5 - 5.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_6.0	BH519	6 - 6.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_6.0	BH519	6 - 6.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_1-1.1	BH7	1 - 1.1	Site 19B	unkown	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_2-2.1	BH7	2 - 2.1	Site 19B	unkown	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_7-7.1	BH7	7 - 7.1	Site 19B	unkown	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP7_1-1.1	BHP7	1 - 1.1	Site 19B	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP7_2-2.1	BHP7	2 - 2.1	Site 19B	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP7_7-7.1	BHP7	7 - 7.1	Site 19B	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC083_0.5-0.7	FC083	0.5 - 0.7	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC083_0.5-0.7	FC083	0.5 - 0.7	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC083_2-2.2	FC083	2 - 2.2	Site 19B	Fill_SAND	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC083_2-2.2	FC083	2 - 2.2	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC086_0.9-1.1	FC086	0.9 - 1.1	Site 19B	Fill_SAND	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC086_1.8-2	FC086	1.8 - 2	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_0.2-0.2	AS03	0.2 - 0.2	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_0.4-0.4	AS03	0.4 - 0.4	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_1-1	AS03	1 - 1	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_2-2	AS03	2 - 2	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15_0.1-0.3	BH15	0.1 - 0.3	Site 8C	Fill - SILT	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15_0.2-0.2	BH15	0.2 - 0.2	Site 8C	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16_0.2-0.2	BH16	0.2 - 0.2	Site 8C	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH3_0.2-0.4	BH3	0.2 - 0.4	Site 8C	Fill - SAND	HLA 2007	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	-	<0.2	<1
BH3_0.7-0.9	BH3	0.7 - 0.9	Site 8C	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH528_0.5	BH528	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH528_0.15	BH528	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220216-PG3	BH528_0.15	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220216-PG3	BH528_0.15	0.15 - 0.25	Site 8C	Fill_SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH529_0.5	BH529	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH529_0.12	BH529	0.12 - 0.22	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220216-PG4	BH529_0.12	0.12 - 0.22	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220216-PG4	BH529_0.12	0.12 - 0.22	Site 8C	Fill_SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP9_0.5-0.6	BHP9	0.5 - 0.6	Site 8C	Fill_CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP9_0.9-1	BHP9	0.9 - 1	Site 8C	Fill_CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC078_0.1-0.2	FC078	0.1 - 0.2	Site 8C	Fill_SAND	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC078_2-2.2	FC078	2 - 2.2	Site 8C	Fill_CLAY	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC078_4-4.2	FC078	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC16	FC078_4-4.2	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC16-A	FC078_4-4.2	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC079_0.1-0.2	FC079	0.1 - 0.2	Site 8C	Fill_SAND	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC079_1.8-2	FC079	1.8 - 2	Site 8C	Fill_SAND	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC081_0.2-0.3	FC081	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC081_0.8-1	FC081	0.8 - 1	Site 8C	CLAY	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC082_0.2-0.3	FC082	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC082_0.2-0.3	FC082	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC082_1.8-2	FC082	1.8 - 2	Site 8C	Fill_CLAY	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC082_2.8-3	FC082	2.8 - 3	Site 8C	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC097_0.2-0.3	FC097	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC097_0.2-0.3	FC097	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	Organochlorine Pesticides																												
	4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	Chlordane (cis)	Chlordane (trans)	DDT	DDE	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Hexachlorobenzene	Methoxychlor	Toxaphene
	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	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.05		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		0.05	0.05	0.05	0.05	0.5
NEPM 2013 Table 1A(1) HILs Res B Soil								10	90						600				20				10		15	500	30
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																												
>=1m, <2m																												
>=2m, <4m																												
>=4m																												
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																												
>=1m, <2m																												
>=2m, <4m																												
>=4m																												
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space												180																
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																												
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																												
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																												
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																												
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																												
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																												
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																												
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																												

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference																								
Stage 4																													
FC097_1.3-1.5	FC097	1.3 - 1.5	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC097_2-2.2	FC097	2 - 2.2	Site 8C	Fill_SAND	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC097_3-3.2	FC097	3 - 3.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC098_0.2-0.3	FC098	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
BH524_6.5	MW524	6.5 - 6.6	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_7.0	MW524	7 - 7.1	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_7.5	MW524	7.5 - 7.6	Site 8C	SHALE	JBS&G 2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.5
BH524_8.5	MW524	8.5 - 8.6	Site 8C	SHALE	JBS&G 2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.5
BH524_0.1	MW524	0.1 - 0.2	Site 8C	Fill - SAND	JBS&G 2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.5
BH524_0.5	MW524	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_1.5	MW524	1.5 - 1.6	Site 8C	Fill - Re-Worked Natural	JBS&G 2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.5
BH526_3.5	MW526	3.5 - 3.6	Site 8C	SHALE	JBS&G 2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.5
BH526_0.5	MW526	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH526_0.15	MW526	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH526_1.0	MW526	1 - 1.1	Site 8C	Fill - SAND	JBS&G 2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	-	-	<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	<10
BH526_1.5	MW526	1.5 - 1.6	Site 8C	Fill - Re-Worked Natural	JBS&G 2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.2	-	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.5
BH527_0.5	MW527	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH527_1.0	MW527	1 - 1.1	Site 8C	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14_0.2-0.2	BH14	0.2 - 0.2	Site 8D	unknown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14_2-2	BH14	2 - 2	Site 8D	unknown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.5-0.7	BH5	0.5 - 0.7	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.6-0.8	BH5	0.6 - 0.8	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.8-0.9	BH5	0.8 - 0.9	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH1 0.5-0.7	BH5	0.5 - 0.7	Site 8D	SAND	HLA 2007	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	-	<0.2	<1
BHP6A_0.5-0.6	BHP6A	0.5 - 0.6	Site 8D	Fill - SILT	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP6A_2-2.1	BHP6A	2 - 2.1	Site 8D	Fill - SILT	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC077_0.8-1	FC077	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC077_1-1.2	FC077	1 - 1.2	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC077_2-2.2	FC077	2 - 2.2	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC080_0.2-0.3	FC080	0.2 - 0.3	Site 8D	Fill_SAND	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC080_0.8-1	FC080	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC080_0.8-1	FC080	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_0.1	MW525	0.1 - 0.2	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_0.5	MW525	0.5 - 0.6	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_1.0	MW525	1 - 1.1	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_1.0	MW525	1 - 1.1	Site 8D	Fill - SAND	JBS&G 2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.5
BH525_3.5	MW525	3.5 - 3.6	Site 8D	Fill - CLAY	JBS&G 2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.5
Stage 5																													
BH4_0.2	BH4	0.2	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R12_0.4-0.5	R12	0.4 - 0.5	Internal Road	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R12_1.9-2	R12	1.9 - 2	Internal Road	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R14_0.9-1	R14	0.9 - 1	Internal Road	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R14_1.9-2	R14	1.9 - 2	Internal Road	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W1-0.5-0.6	S5-W1	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W1-0.5-0.6	S5-W1	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W1-2.0-2.1	S5-W1	2 - 2.1	Internal Road	Fill-Gravelly clay, dark brown inc. sandstone gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	Organochlorine Pesticides																												
	4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	Chlordane (cis)	Chlordane (trans)	DDT	DDE	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Hexachlorobenzene	Methoxychlor	Toxaphene
	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	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.05		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		0.05	0.05	0.05	0.05	0.5
NEPM 2013 Table 1A(1) HILs Res B Soil								10	90						600				20				10		15	500	30
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																											
>=1m, <2m																											
>=2m, <4m																											
>=4m																											
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																											
>=1m, <2m																											
>=2m, <4m																											
>=4m																											
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space												180															
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																											
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																											
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																											
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																											
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																											
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																											
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																											
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																											
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																								
Stage 5																													
S5-W3-0.3-0.4	S5-W3	0.3 - 0.4	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W3-0.5-0.6	S5-W3	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W3 0.3-0.4	S5-W3	0.3 - 0.4	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH3 2.0-2.2	BH3	2 - 2.2	Site 8A	Fill - CLAY	Coffey 2011	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	-	<0.2	<1
BH2 1.3-1.5	BH2	1.3 - 1.5	Site 8A	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.2	BH5	0.2	Site 8A	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_2.0	BH5	2	Site 8A	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-3-0.3-0.4	S5-3	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-3-0.3-0.4	S5-3	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IQC2	S5-3-0.3-0.4	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IQC2	S5-3-0.3-0.4	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-3-0.5-0.6	S5-3	0.5 - 0.6	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-3-1.0-1.1	S5-3	1 - 1.1	Site 8A	Fill-Silty gravelly sand, brown inc. trace gravels and ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-4-1.0-1.1	S5-4	1 - 1.1	Site 8A	Fill-Silty gravelly sand, brown inc. trace gravels and ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-5-0.0-0.1	S5-5	0 - 0.1	Site 8A	Fill-Gravelly sand, brown inc. roadbase gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-5-0.3-0.4	S5-5	0.3 - 0.4	Site 8A	Fill-Gravelly sand, brown inc. roadbase gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-5-0.5-0.6	S5-5	0.5 - 0.6	Site 8A	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W2-0.5-0.6	S5-W2	0.5 - 0.6	Site 8A	Fill-Gravelly sand, dark brown inc. organics and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IQA1	S5-W2-0.5-0.6	0.5 - 0.6	Site 8A	-	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IQC1	S5-W2-0.5-0.6	0.5 - 0.6	Site 8A	-	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC075 0.2-0.3	FC075	0.2 - 0.3	Site 8A	Fill - SAND	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC075 0.6-0.8	FC075	0.6 - 0.8	Site 8A	Fill - Brick	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC075 0.8-1.0	FC075	0.8 - 1	Site 8A	SAND	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC075 1.0-1.2	FC075	1 - 1.2	Site 8A	SAND	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

								Organochlorine Pesticides																						
								4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	Chlordane (cis)	Chlordane (trans)	DDT	DDE	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Hexachlorobenzene	Methoxychlor	Toxaphene
								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								0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.05		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5
NEPM 2013 Table 1A(1) HILs Res B Soil															10	90						600				20				10		15	500	30
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																																		
>=1m, <2m																																		
>=2m, <4m																																		
>=4m																																		
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																																		
>=1m, <2m																																		
>=2m, <4m																																		
>=4m																																		
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																			180															
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																																		
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																																		
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																																		
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																																		
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																																		
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																																		
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																																		
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																																		
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																													
BH13_0.2	BH13	0.2	Site 8B	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6_0.2	BH6	0.2	Site 8B	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stage 5																																		
BH7_0.2	BH7	0.2	Site 8B	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-1-0.5-0.6	S5-1	0.5 - 0.6	Site 8B	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-1-0.5-0.6	S5-1	0.5 - 0.6	Site 8B	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-1-2.0-2.1	S5-1	2 - 2.1	Site 8B	Nat-Silty clay, yellow, grey	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-2-0.3-0.4	S5-2	0.3 - 0.4	Site 8B	Fill-Gravelly sand, brown inc. igneous roadbase gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-2-0.5-0.6	S5-2	0.5 - 0.6	Site 8B	Fill-Gravelly sand, brown inc. igneous roadbase gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC073 0.2-0.3	FC073	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC073 1-1.2	FC073	1 - 1.2	Site 8B	Fill - SAND	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC073 1.5-1.7	FC073	1.5 - 1.7	Site 8B	CLAY	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC074 0.2-0.3	FC074	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
QC04	FC074_0.2-0.3	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
QC04-A	FC074_0.2-0.3	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	-	<0.1	-	-	<0.1	<0.1	0.15	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-
FC074 0.8-1	FC074	0.8 - 1	Site 8B	SAND	JBS&G 2014	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC074 3.0-3.2	FC074	3 - 3.2	Site 8B	CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

JBS&G

															Chlorinated Alkanes															Chlorinated Alkenes									
															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	Vinyl Chloride	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene
															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	0.5	1	1	0.5	0.5	0.5	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Res B Soil																																								
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																																								
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NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																																								
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NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																																								
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NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																																								
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PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																																								
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																																								
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																																		
Stage 4																																								
AS04_0.2-0.2	AS04	0.2 - 0.2	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS04_0.6-0.6	AS04	0.6 - 0.6	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS04_2-2	AS04	2 - 2	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS04_2.8-2.8	AS04	1 - 1	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09_0.2-0.5	BH09	0.2 - 0.5	Internal Road	unkown	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09_3.0-3.5	BH09	3 - 3.5	Internal Road	unkown	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10_1-1	BH10	1 - 1	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10_2-2	BH10	2 - 2	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11_1-1	BH11	1 - 1	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_0.1	BH514	0.1 - 0.2	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_1.0	BH514	1 - 1.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_2.0	BH514	2 - 2.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_3.0	BH514	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_4.0	BH514	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_5.0	BH514	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_5.5	BH514	5.5 - 5.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_0.5	BH515	0.5 - 0.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_1.5	BH515	1.5 - 1.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_2.5	BH515	2.5 - 2.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_3.5	BH515	3.5 - 3.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_4.5	BH515	4.5 - 4.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_5.5	BH515	5.5 - 5.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_0.5	BH516	0.5 - 0.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_1.5	BH516	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_2.0	BH516	2 - 2.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_3.0	BH516	3 - 3.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_5.0	BH516	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_6.0	BH516	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_0.5	BH517	0.5 - 0.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_1.5	BH517	1.5 - 1.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_2.5	BH517	2.5 - 2.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_3.5	BH517	3.5 - 3.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_4.5	BH517	4.5 - 4.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_5.5	BH517	5.5 - 5.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_6.5	BH517	6.5 - 6.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_1.0	BH520	1 - 1.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_2.0	BH520	2 - 2.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_3.0	BH520	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_3.0	BH520	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_5.0	BH520	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_5.0	BH520	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_6.0	BH520	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_6.0	BH520	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH9_0.2-0.2	BH9	0.5 - 0.5	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH9_3.0-3.5	BH9	3 - 3.5	Internal Road	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH9_0.2-0.5	BH9	0.2 - 0.5	Internal Road	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_0.2-0.3	FC099	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

								Chlorinated Alkanes																								
								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	Vinyl Chloride	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene
								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	0.5	1	1	0.5	0.5	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Res B Soil																																	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																																	
>=1m, <2m																																	
>=2m, <4m																																	
>=4m																																	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																																	
>=1m, <2m																																	
>=2m, <4m																																	
>=4m																																	
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																																	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																																	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																																	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																																	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																																	
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																																	
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																																	
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																																	
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																																	
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																												
Stage 4																																	
FC099_0.2-0.3	FC099	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_0.5-0.7	FC099	0.5 - 0.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_1.5-1.7	FC099	1.5 - 1.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_4.5-4.7	FC099	4.5 - 4.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_4.5-4.7	FC099	4.5 - 4.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_0.2-0.3	FC100	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_0.2-0.3	FC100	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_0.4-0.6	FC100	0.4 - 0.6	Internal Road	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_1.7-1.9	FC100	1.7 - 1.9	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_4.3-4.5	FC100	4.3 - 4.5	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_4.3-4.5	FC100	4.3 - 4.5	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC101_0.5-0.8	FC101	0.5 - 0.8	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC101_3-3.2	FC101	3 - 3.2	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC101_5.0-5.2	FC101	5 - 5.2	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_10.5	MW523	10.5 - 10.6	Internal Road	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_12.5	MW523	12.5 - 12.6	Internal Road	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_0.5	MW523	0.5 - 0.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_1.0	MW523	1 - 1.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_1.5	MW523	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_8.5	MW523	8.5 - 8.6	Internal Road	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_13.0	MW523	13 - 13.1	Internal Road	CLAY (CL)	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_1.5	MW523	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_2.5	MW523	2.5 - 2.6	Internal Road	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R35_0.9-1.0	R35	0.9 - 1	Internal Road	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R35_2.9-3	R35	2.9 - 3	Internal Road	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_0.1-0.2	BH8	0.1 - 0.2	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_6-6.5	BH8	6 - 6.5	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12_0.2-0.2	BH12	0.2 - 0.2	Site 19A	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_0.5	BH513	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_0.5	BH513	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_1.5	BH513	1.5 - 1.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_1.5	BH513	1.5 - 1.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.0	BH513	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.0	BH513	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.5	BH513	3.5 - 3.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.5	BH513	3.5 - 3.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_4.5	BH513	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_4.5	BH513	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_6.0	BH513	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_6.0	BH513	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_0.1	BH518	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_0.1	BH518	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_1.0	BH518	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_1.0	BH518	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_2.0	BH518	2 - 2.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_2.0	BH518	2 - 2.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_3.0	BH518	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_3.0	BH518	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_4.5	BH518	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_4.5	BH518	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

								Chlorinated Alkanes															Chlorinated Alkenes									
								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	Vinyl Chloride	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene
								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	0.5	1	1	0.5	0.5	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Res B Soil																																	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																																	
>=1m, <2m																																	
>=2m, <4m																																	
>=4m																																	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																																	
>=1m, <2m																																	
>=2m, <4m																																	
>=4m																																	
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																																	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																																	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																																	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																																	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																																	
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																																	
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																																	
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																																	
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																																	
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																												
Stage 4																																	
BH518_6.0	BH518	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6_1-1.5	BH6	1 - 1.5	Site 19A	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_0.1-0.1	BH8	0.1 - 0.1	Site 19A	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_0.5-0.5	BH8	0.2 - 0.4	Site 19A	Fill - Gravel	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_2.6-2.9	BH8	2.6 - 2.9	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP03_2.6-2.9	BH8_2.6-2.9	2.6 - 2.9	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP8_0.1-0.1	BHP8	0.1 - 0.1	Site 19A	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP8_0.5-0.6	BHP8	0.5 - 0.6	Site 19A	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP8_2-2.1	BHP8	2 - 2.1	Site 19A	CLAY (CL)	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC084_0.1-0.2	FC084	0.1 - 0.2	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC084_4.5-4.7	FC084	4.5 - 4.7	Site 19A	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC085_0.2-0.3	FC085	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC085_0.2-0.3	FC085	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC087_0.2-0.3	FC087	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC087_0.2-0.3	FC087	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC087_2.7-2.9	FC087	2.7 - 2.9	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC087_4.5-4.7	FC087	4.5 - 4.7	Site 19A	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC088_0.8-1	FC088	0.8 - 1	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC088_2.2-2.4	FC088	2.2 - 2.4	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.1	MW521	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_1.0	MW521	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_2.0	MW521	2 - 2.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220215-PG2	BH521_0.5	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220215-PG2	BH521_0.5	0.5 - 0.5	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_2.0	MW521	2 - 2.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_3.5	MW521	3.5 - 3.6	Site 19A	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_0.5	MW522	0.5 - 0.6	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_0.12	MW522	0.12 - 0.22	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220215-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_5.0	MW522	5 - 5.1	Site 19A	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.5	MW522	1.5 - 1.6	Site 19A	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_1.0	BH519	1 - 1.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_1.0	BH519	1 - 1.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_2.0	BH519	2 - 2.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_2.0	BH519	2 - 2.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_3.0	BH519	3 - 3.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_3.0	BH519	3 - 3.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_4.0	BH519	4 - 4.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_4.0	BH519	4 - 4.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

								Chlorinated Alkanes															Chlorinated Alkenes									
								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	Vinyl Chloride	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene
								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	0.5	1	1	0.5	0.5	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Res B Soil																																	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																																	
>=1m, <2m																																	
>=2m, <4m																																	
>=4m																																	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																																	
>=1m, <2m																																	
>=2m, <4m																																	
>=4m																																	
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																																	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																																	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																																	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																																	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																																	
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																																	
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																																	
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																																	
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																																	
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																												
Stage 4																																	
BH519_5.0	BH519	5 - 5.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_5.0	BH519	5 - 5.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_6.0	BH519	6 - 6.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_6.0	BH519	6 - 6.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_1-1.1	BH7	1 - 1.1	Site 19B	unkown	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_2-2.1	BH7	2 - 2.1	Site 19B	unkown	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_7-7.1	BH7	7 - 7.1	Site 19B	unkown	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP7_1-1.1	BHP7	1 - 1.1	Site 19B	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP7_2-2.1	BHP7	2 - 2.1	Site 19B	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP7_7-7.1	BHP7	7 - 7.1	Site 19B	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC083_0.5-0.7	FC083	0.5 - 0.7	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC083_0.5-0.7	FC083	0.5 - 0.7	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC083_2-2.2	FC083	2 - 2.2	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC083_2-2.2	FC083	2 - 2.2	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC086_0.9-1.1	FC086	0.9 - 1.1	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC086_1.8-2	FC086	1.8 - 2	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_0.2-0.2	AS03	0.2 - 0.2	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_0.4-0.4	AS03	0.4 - 0.4	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_1-1	AS03	1 - 1	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_2-2	AS03	2 - 2	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15_0.1-0.3	BH15	0.1 - 0.3	Site 8C	Fill - SILT	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15_0.2-0.2	BH15	0.2 - 0.2	Site 8C	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16_0.2-0.2	BH16	0.2 - 0.2	Site 8C	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH3_0.2-0.4	BH3	0.2 - 0.4	Site 8C	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH3_0.7-0.9	BH3	0.7 - 0.9	Site 8C	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH528_0.5	BH528	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH528_0.15	BH528	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220216-PG3	BH528_0.15	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220216-PG3	BH528_0.15	0.15 - 0.25	Site 8C	Fill_SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH529_0.5	BH529	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH529_0.12	BH529	0.12 - 0.22	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220216-PG4	BH529_0.12	0.12 - 0.22	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220216-PG4	BH529_0.12	0.12 - 0.22	Site 8C	Fill_SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP9_0.5-0.6	BHP9	0.5 - 0.6	Site 8C	Fill_CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP9_0.9-1	BHP9	0.9 - 1	Site 8C	Fill_CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC078_0.1-0.2	FC078	0.1 - 0.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC078_2-2.2	FC078	2 - 2.2	Site 8C	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC078_4-4.2	FC078	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05
QC16	FC078_4-4.2	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC16-A	FC078_4-4.2	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC079_0.1-0.2	FC079	0.1 - 0.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC079_1.8-2	FC079	1.8 - 2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC081_0.2-0.3	FC081	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC081_0.8-1	FC081	0.8 - 1	Site 8C	CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC082_0.2-0.3	FC082	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC082_0.2-0.3	FC082	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC082_1.8-2	FC082	1.8 - 2	Site 8C	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC082_2.8-3	FC082	2.8 - 3	Site 8C	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC097_0.2-0.3	FC097	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC097_0.2-0.3	FC097	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

								Chlorinated Alkanes																							Chlorinated Alkenes		
								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	Vinyl Chloride	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene
								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	0.5	1	1	0.5	0.5	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Res B Soil																																	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																																	
>=1m, <2m																																	
>=2m, <4m																																	
>=4m																																	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																																	
>=1m, <2m																																	
>=2m, <4m																																	
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NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																																	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																																	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																																	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																																	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																																	
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																																	
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																																	
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																																	
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																																	
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																												
Stage 4																																	
FC097_1.3-1.5	FC097	1.3 - 1.5	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC097_2-2.2	FC097	2 - 2.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC097_3-3.2	FC097	3 - 3.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC098_0.2-0.3	FC098	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_6.5	MW524	6.5 - 6.6	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_7.0	MW524	7 - 7.1	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_7.5	MW524	7.5 - 7.6	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_8.5	MW524	8.5 - 8.6	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_0.1	MW524	0.1 - 0.2	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_0.5	MW524	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_1.5	MW524	1.5 - 1.6	Site 8C	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH526_3.5	MW526	3.5 - 3.6	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH526_0.5	MW526	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH526_0.15	MW526	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH526_1.0	MW526	1 - 1.1	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH526_1.5	MW526	1.5 - 1.6	Site 8C	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH527_0.5	MW527	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH527_1.0	MW527	1 - 1.1	Site 8C	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14_0.2-0.2	BH14	0.2 - 0.2	Site 8D	unknown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14_2-2	BH14	2 - 2	Site 8D	unknown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.5-0.7	BH5	0.5 - 0.7	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.6-0.8	BH5	0.6 - 0.8	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.8-0.9	BH5	0.8 - 0.9	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH1 0.5-0.7	BH5	0.5 - 0.7	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP6A_0.5-0.6	BHP6A	0.5 - 0.6	Site 8D	Fill - SILT	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP6A_2-2.1	BHP6A	2 - 2.1	Site 8D	Fill - SILT	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC077_0.8-1	FC077	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC077_1-1.2	FC077	1 - 1.2	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC077_2-2.2	FC077	2 - 2.2	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC080_0.2-0.3	FC080	0.2 - 0.3	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC080_0.8-1	FC080	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC080_0.8-1	FC080	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_0.1	MW525	0.1 - 0.2	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_0.5	MW525	0.5 - 0.6	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_1.0	MW525	1 - 1.1	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_1.0	MW525	1 - 1.1	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_3.5	MW525	3.5 - 3.6	Site 8D	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stage 5																																	
BH4_0.2	BH4	0.2	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R12_0.4-0.5	R12	0.4 - 0.5	Internal Road	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R12_1.9-2	R12	1.9 - 2	Internal Road	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R14_0.9-1	R14	0.9 - 1	Internal Road	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R14_1.9-2	R14	1.9 - 2	Internal Road	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W1-0.5-0.6	S5-W1	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics and concrete	JBS&G 2023c	<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	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
S5-W1-0.5-0.6	S5-W1	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W1-2.0-2.1	S5-W1	2 - 2.1	Internal Road	Fill-Gravelly clay, dark brown inc. sandstone gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

								Chlorinated Alkanes															Chlorinated Alkenes									
								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	Vinyl Chloride	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene
								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	0.5	1	1	0.5	0.5	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Res B Soil																																	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																																	
>=1m, <2m																																	
>=2m, <4m																																	
>=4m																																	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																																	
>=1m, <2m																																	
>=2m, <4m																																	
>=4m																																	
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																																	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																																	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																																	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																																	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																																	
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																																	
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																																	
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																																	
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																																	
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																												
Stage 5																																	
S5-W3-0.3-0.4	S5-W3	0.3 - 0.4	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	<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	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
S5-W3-0.5-0.6	S5-W3	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W3 0.3-0.4	S5-W3	0.3 - 0.4	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH3 2.0-2.2	BH3	2 - 2.2	Site 8A	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH2 1.3-1.5	BH2	1.3 - 1.5	Site 8A	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.2	BH5	0.2	Site 8A	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_2.0	BH5	2	Site 8A	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-3-0.3-0.4	S5-3	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	<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	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
S5-3-0.3-0.4	S5-3	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IQC2	S5-3-0.3-0.4	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IQC2	S5-3-0.3-0.4	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-3-0.5-0.6	S5-3	0.5 - 0.6	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-3-1.0-1.1	S5-3	1 - 1.1	Site 8A	Fill-Silty gravelly sand, brown inc. trace gravels and ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-4-1.0-1.1	S5-4	1 - 1.1	Site 8A	Fill-Silty gravelly sand, brown inc. trace gravels and ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-5-0.0-0.1	S5-5	0 - 0.1	Site 8A	Fill-Gravelly sand, brown inc. roadbase gravels	JBS&G 2023c	<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	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
S5-5-0.3-0.4	S5-5	0.3 - 0.4	Site 8A	Fill-Gravelly sand, brown inc. roadbase gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-5-0.5-0.6	S5-5	0.5 - 0.6	Site 8A	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W2-0.5-0.6	S5-W2	0.5 - 0.6	Site 8A	Fill-Gravelly sand, dark brown inc. organics and concrete	JBS&G 2023c	<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	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
IQA1	S5-W2-0.5-0.6	0.5 - 0.6	Site 8A	-	JBS&G 2023c	<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	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
IQC1	S5-W2-0.5-0.6	0.5 - 0.6	Site 8A	-	JBS&G 2023c	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	-	<1	<1	<1	<1
FC075 0.2-0.3	FC075	0.2 - 0.3	Site 8A	Fill - SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC075 0.6-0.8	FC075	0.6 - 0.8	Site 8A	Fill - Brick	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC075 0.8-1.0	FC075	0.8 - 1	Site 8A	SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC075 1.0-1.2	FC075	1 - 1.2	Site 8A	SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

							Chlorinated Alkanes														Chlorinated Alkenes								
							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	Vinyl Chloride	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene
							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	0.5	1	1	0.5	0.5	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Res B Soil																																	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																																	
>=1m, <2m																																	
>=2m, <4m																																	
>=4m																																	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																																	
>=1m, <2m																																	
>=2m, <4m																																	
>=4m																																	
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																																	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																																	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																																	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																																	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																																	
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																																	
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																																	
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																																	
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																																	
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																												
BH13_0.2	BH13	0.2	Site 8B	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6_0.2	BH6	0.2	Site 8B	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stage 5																																	
BH7_0.2	BH7	0.2	Site 8B	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-1-0.5-0.6	S5-1	0.5 - 0.6	Site 8B	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-1-0.5-0.6	S5-1	0.5 - 0.6	Site 8B	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-1-2.0-2.1	S5-1	2 - 2.1	Site 8B	Nat-Silty clay, yellow, grey	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-2-0.3-0.4	S5-2	0.3 - 0.4	Site 8B	Fill-Gravelly sand, brown inc. igneous roadbase gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-2-0.5-0.6	S5-2	0.5 - 0.6	Site 8B	Fill-Gravelly sand, brown inc. igneous roadbase gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC073 0.2-0.3	FC073	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC073 1-1.2	FC073	1 - 1.2	Site 8B	Fill - SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC073 1.5-1.7	FC073	1.5 - 1.7	Site 8B	CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC074 0.2-0.3	FC074	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05
QC04	FC074_0.2-0.3	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC04-A	FC074_0.2-0.3	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC074 0.8-1	FC074	0.8 - 1	Site 8B	SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC074 3.0-3.2	FC074	3 - 3.2	Site 8B	CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

				Chlorinated Alkenes			Solvents	Polychlorinated Biphenyls								PFAS											
				trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Acetone	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	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 (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)
				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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0005	0.0005	0.0005	0.0005	0.005
NEPM 2013 Table 1A(1) HILs Res B Soil															1											
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																										
>=1m, <2m																										
>=2m, <4m																										
>=4m																										
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																										
>=1m, <2m																										
>=2m, <4m																										
>=4m																										
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																										
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																										
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																										
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																										
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																										
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																				10						
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																				20						
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																										
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																				0.003						
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																						
Stage 4																											
AS04_0.2-0.2	AS04	0.2 - 0.2	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS04_0.6-0.6	AS04	0.6 - 0.6	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS04_2-2	AS04	2 - 2	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS04_2.8-2.8	AS04	1 - 1	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09_0.2-0.5	BH09	0.2 - 0.5	Internal Road	unkown	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09_3.0-3.5	BH09	3 - 3.5	Internal Road	unkown	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10_1-1	BH10	1 - 1	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10_2-2	BH10	2 - 2	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11_1-1	BH11	1 - 1	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_0.1	BH514	0.1 - 0.2	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_1.0	BH514	1 - 1.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_2.0	BH514	2 - 2.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_3.0	BH514	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_4.0	BH514	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_5.0	BH514	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_5.5	BH514	5.5 - 5.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_0.5	BH515	0.5 - 0.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_1.5	BH515	1.5 - 1.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_2.5	BH515	2.5 - 2.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_3.5	BH515	3.5 - 3.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_4.5	BH515	4.5 - 4.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_5.5	BH515	5.5 - 5.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_0.5	BH516	0.5 - 0.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_1.5	BH516	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_2.0	BH516	2 - 2.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_3.0	BH516	3 - 3.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_5.0	BH516	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_6.0	BH516	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_0.5	BH517	0.5 - 0.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_1.5	BH517	1.5 - 1.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_2.5	BH517	2.5 - 2.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_3.5	BH517	3.5 - 3.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_4.5	BH517	4.5 - 4.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_5.5	BH517	5.5 - 5.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_6.5	BH517	6.5 - 6.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_1.0	BH520	1 - 1.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_2.0	BH520	2 - 2.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_3.0	BH520	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_3.0	BH520	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_5.0	BH520	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_5.0	BH520	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_6.0	BH520	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_6.0	BH520	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH9_0.2-0.2	BH9	0.5 - 0.5	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH9_3.0-3.5	BH9	3 - 3.5	Internal Road	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH9_0.2-0.5	BH9	0.2 - 0.5	Internal Road	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_0.2-0.3	FC099	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

				Chlorinated Alkenes			Solvents	Polychlorinated Biphenyls								PFAS										
				trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Acetone	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	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 (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)
				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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0005	0.0005	0.0005	0.0005	0.005
NEPM 2013 Table 1A(1) HILs Res B Soil															1											
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																										
>=1m, <2m																										
>=2m, <4m																										
>=4m																										
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																										
>=1m, <2m																										
>=2m, <4m																										
>=4m																										
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																										
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																										
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																										
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																										
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																										
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																				10						
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																				20						
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																										
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																				0.003						
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																					
Stage 4																										
FC099_0.2-0.3	FC099	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_0.5-0.7	FC099	0.5 - 0.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_1.5-1.7	FC099	1.5 - 1.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-
FC099_4.5-4.7	FC099	4.5 - 4.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_4.5-4.7	FC099	4.5 - 4.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_0.2-0.3	FC100	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-
FC100_0.2-0.3	FC100	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_0.4-0.6	FC100	0.4 - 0.6	Internal Road	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_1.7-1.9	FC100	1.7 - 1.9	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_4.3-4.5	FC100	4.3 - 4.5	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_4.3-4.5	FC100	4.3 - 4.5	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC101_0.5-0.8	FC101	0.5 - 0.8	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-
FC101_3-3.2	FC101	3 - 3.2	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC101_5.0-5.2	FC101	5 - 5.2	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-
BH523_10.5	MW523	10.5 - 10.6	Internal Road	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_12.5	MW523	12.5 - 12.6	Internal Road	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_0.5	MW523	0.5 - 0.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH523_1.0	MW523	1 - 1.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH523_1.5	MW523	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_8.5	MW523	8.5 - 8.6	Internal Road	SHALE	JBS&G 2022	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-
BH523_13.0	MW523	13 - 13.1	Internal Road	CLAY (CL)	JBS&G 2022	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-
BH523_1.5	MW523	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-
BH523_2.5	MW523	2.5 - 2.6	Internal Road	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-
R35_0.9-1.0	R35	0.9 - 1	Internal Road	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R35_2.9-3	R35	2.9 - 3	Internal Road	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_0.1-0.2	BH8	0.1 - 0.2	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_6-6.5	BH8	6 - 6.5	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12_0.2-0.2	BH12	0.2 - 0.2	Site 19A	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_0.5	BH513	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_0.5	BH513	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_1.5	BH513	1.5 - 1.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_1.5	BH513	1.5 - 1.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.0	BH513	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.0	BH513	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.5	BH513	3.5 - 3.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.5	BH513	3.5 - 3.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_4.5	BH513	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_4.5	BH513	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_6.0	BH513	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_6.0	BH513	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_0.1	BH518	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_0.1	BH518	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_1.0	BH518	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_1.0	BH518	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_2.0	BH518	2 - 2.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_2.0	BH518	2 - 2.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_3.0	BH518	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_3.0	BH518	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_4.5	BH518	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_4.5	BH518	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

				Chlorinated Alkenes			Solvents	Polychlorinated Biphenyls								PFAS										
				trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Acetone	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	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 (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)
				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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0005	0.0005	0.0005	0.0005	0.005
NEPM 2013 Table 1A(1) HILs Res B Soil															1											
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																										
>=1m, <2m																										
>=2m, <4m																										
>=4m																										
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																										
>=1m, <2m																										
>=2m, <4m																										
>=4m																										
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																										
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																										
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																										
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																										
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																										
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																				10						
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																				20						
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																										
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																				0.003						
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																					
Stage 4																										
BH518_6.0	BH518	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6_1-1.5	BH6	1 - 1.5	Site 19A	SAND	HLA 2007	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-
BH8_0.1-0.1	BH8	0.1 - 0.1	Site 19A	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_0.5-0.5	BH8	0.2 - 0.4	Site 19A	Fill - Gravel	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_2.6-2.9	BH8	2.6 - 2.9	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP03_2.6-2.9	BH8_2.6-2.9	2.6 - 2.9	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP8_0.1-0.1	BHP8	0.1 - 0.1	Site 19A	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP8_0.5-0.6	BHP8	0.5 - 0.6	Site 19A	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP8_2-2.1	BHP8	2 - 2.1	Site 19A	CLAY (CL)	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC084_0.1-0.2	FC084	0.1 - 0.2	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-
FC084_4.5-4.7	FC084	4.5 - 4.7	Site 19A	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC085_0.2-0.3	FC085	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-
FC085_0.2-0.3	FC085	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC087_0.2-0.3	FC087	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-
FC087_0.2-0.3	FC087	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC087_2.7-2.9	FC087	2.7 - 2.9	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-
FC087_4.5-4.7	FC087	4.5 - 4.7	Site 19A	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC088_0.8-1	FC088	0.8 - 1	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC088_2.2-2.4	FC088	2.2 - 2.4	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-
BH521_0.1	MW521	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH521_1.0	MW521	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH521_2.0	MW521	2 - 2.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-
QA20220215-PG2	BH521_0.5	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-
QC20220215-PG2	BH521_0.5	0.5 - 0.5	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-
BH521_2.0	MW521	2 - 2.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-
BH521_3.5	MW521	3.5 - 3.6	Site 19A	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-
BH522_0.5	MW522	0.5 - 0.6	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH522_0.12	MW522	0.12 - 0.22	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
QA20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-
QC20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220215-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-
BH522_5.0	MW522	5 - 5.1	Site 19A	SHALE	JBS&G 2022	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.5	MW522	1.5 - 1.6	Site 19A	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-
BH519_1.0	BH519	1 - 1.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_1.0	BH519	1 - 1.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_2.0	BH519	2 - 2.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_2.0	BH519	2 - 2.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_3.0	BH519	3 - 3.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_3.0	BH519	3 - 3.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_4.0	BH519	4 - 4.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_4.0	BH519	4 - 4.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

				Chlorinated Alkenes			Solvents	Polychlorinated Biphenyls								PFAS													
				trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Acetone	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	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 (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)
				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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0005	0.0005	0.0005	0.0005	0.005
NEPM 2013 Table 1A(1) HILs Res B Soil															1											
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																										
>=1m, <2m																										
>=2m, <4m																										
>=4m																										
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																										
>=1m, <2m																										
>=2m, <4m																										
>=4m																										
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																										
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																										
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																										
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																										
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																										
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																				10						
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																				20						
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																										
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																				0.003						
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																								
Stage 4																													
BH519_5.0	BH519	5 - 5.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_5.0	BH519	5 - 5.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_6.0	BH519	6 - 6.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_6.0	BH519	6 - 6.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_1-1.1	BH7	1 - 1.1	Site 19B	unkown	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_2-2.1	BH7	2 - 2.1	Site 19B	unkown	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_7-7.1	BH7	7 - 7.1	Site 19B	unkown	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP7_1-1.1	BHP7	1 - 1.1	Site 19B	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP7_2-2.1	BHP7	2 - 2.1	Site 19B	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP7_7-7.1	BHP7	7 - 7.1	Site 19B	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC083_0.5-0.7	FC083	0.5 - 0.7	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC083_0.5-0.7	FC083	0.5 - 0.7	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC083_2-2.2	FC083	2 - 2.2	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-
FC083_2-2.2	FC083	2 - 2.2	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC086_0.9-1.1	FC086	0.9 - 1.1	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-
FC086_1.8-2	FC086	1.8 - 2	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_0.2-0.2	AS03	0.2 - 0.2	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_0.4-0.4	AS03	0.4 - 0.4	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_1-1	AS03	1 - 1	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_2-2	AS03	2 - 2	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15_0.1-0.3	BH15	0.1 - 0.3	Site 8C	Fill - SILT	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15_0.2-0.2	BH15	0.2 - 0.2	Site 8C	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16_0.2-0.2	BH16	0.2 - 0.2	Site 8C	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH3_0.2-0.4	BH3	0.2 - 0.4	Site 8C	Fill - SAND	HLA 2007	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-
BH3_0.7-0.9	BH3	0.7 - 0.9	Site 8C	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH528_0.5	BH528	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH528_0.15	BH528	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
QA20220216-PG3	BH528_0.15	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
QC20220216-PG3	BH528_0.15	0.15 - 0.25	Site 8C	Fill_SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	-	-	-	-	-
BH529_0.5	BH529	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH529_0.12	BH529	0.12 - 0.22	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
QA20220216-PG4	BH529_0.12	0.12 - 0.22	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
QC20220216-PG4	BH529_0.12	0.12 - 0.22	Site 8C	Fill_SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	-	-	-	-	-
BHP9_0.5-0.6	BHP9	0.5 - 0.6	Site 8C	Fill_CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP9_0.9-1	BHP9	0.9 - 1	Site 8C	Fill_CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC078_0.1-0.2	FC078	0.1 - 0.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-
FC078_2-2.2	FC078	2 - 2.2	Site 8C	Fill_CLAY	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-
FC078_4-4.2	FC078	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC16	FC078_4-4.2	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC16-A	FC078_4-4.2	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC079_0.1-0.2	FC079	0.1 - 0.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-
FC079_1.8-2	FC079	1.8 - 2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-
FC081_0.2-0.3	FC081	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-
FC081_0.8-1	FC081	0.8 - 1	Site 8C	CLAY	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-
FC082_0.2-0.3	FC082	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-
FC082_0.2-0.3	FC082	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC082_1.8-2	FC082	1.8 - 2	Site 8C	Fill_CLAY	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-
FC082_2.8-3	FC082	2.8 - 3	Site 8C	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC097_0.2-0.3	FC097	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-
FC097_0.2-0.3	FC097	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

					Chlorinated Alkenes			Solvents	Polychlorinated Biphenyls								PFAS										
					trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Acetone	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	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 (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)
					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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0005	0.0005	0.0005	0.0005	0.005
NEPM 2013 Table 1A(1) HILs Res B Soil																1											
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																											
>=1m, <2m																											
>=2m, <4m																											
>=4m																											
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																											
>=1m, <2m																											
>=2m, <4m																											
>=4m																											
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																											
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																											
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																											
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																											
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																											
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																					10						
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																					20						
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																											
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																					0.003						
Stage 4																											
FC097_1.3-1.5	FC097	1.3 - 1.5	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC097_2-2.2	FC097	2 - 2.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-
FC097_3-3.2	FC097	3 - 3.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC098_0.2-0.3	FC098	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-
BH524_6.5	MW524	6.5 - 6.6	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_7.0	MW524	7 - 7.1	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_7.5	MW524	7.5 - 7.6	Site 8C	SHALE	JBS&G 2022	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-
BH524_8.5	MW524	8.5 - 8.6	Site 8C	SHALE	JBS&G 2022	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-
BH524_0.1	MW524	0.1 - 0.2	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<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
BH524_0.5	MW524	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH524_1.5	MW524	1.5 - 1.6	Site 8C	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-
BH526_3.5	MW526	3.5 - 3.6	Site 8C	SHALE	JBS&G 2022	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-
BH526_0.5	MW526	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH526_0.15	MW526	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH526_1.0	MW526	1 - 1.1	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-
BH526_1.5	MW526	1.5 - 1.6	Site 8C	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-
BH527_0.5	MW527	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH527_1.0	MW527	1 - 1.1	Site 8C	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH14_0.2-0.2	BH14	0.2 - 0.2	Site 8D	unknown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14_2-2	BH14	2 - 2	Site 8D	unknown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.5-0.7	BH5	0.5 - 0.7	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.6-0.8	BH5	0.6 - 0.8	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.8-0.9	BH5	0.8 - 0.9	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH1 0.5-0.7	BH5	0.5 - 0.7	Site 8D	SAND	HLA 2007	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
BHP6A_0.5-0.6	BHP6A	0.5 - 0.6	Site 8D	Fill - SILT	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP6A_2-2.1	BHP6A	2 - 2.1	Site 8D	Fill - SILT	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC077_0.8-1	FC077	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-
FC077_1-1.2	FC077	1 - 1.2	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC077_2-2.2	FC077	2 - 2.2	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC080_0.2-0.3	FC080	0.2 - 0.3	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-
FC080_0.8-1	FC080	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC080_0.8-1	FC080	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_0.1	MW525	0.1 - 0.2	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH525_0.5	MW525	0.5 - 0.6	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH525_1.0	MW525	1 - 1.1	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_1.0	MW525	1 - 1.1	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-
BH525_3.5	MW525	3.5 - 3.6	Site 8D	Fill - CLAY	JBS&G 2022	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-
Stage 5																											
BH4_0.2	BH4	0.2	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R12_0.4-0.5	R12	0.4 - 0.5	Internal Road	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R12_1.9-2	R12	1.9 - 2	Internal Road	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R14_0.9-1	R14	0.9 - 1	Internal Road	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R14_1.9-2	R14	1.9 - 2	Internal Road	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W1-0.5-0.6	S5-W1	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics and concrete	JBS&G 2023c	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W1-0.5-0.6	S5-W1	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W1-2.0-2.1	S5-W1	2 - 2.1	Internal Road	Fill-Gravelly clay, dark brown inc. sandstone gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	Chlorinated Alkenes			Solvents	Polychlorinated Biphenyls								PFAS									
	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Acetone	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	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 (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)
	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0005	0.0005	0.0005	0.0005	0.005
NEPM 2013 Table 1A(1) HILs Res B Soil												1											
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																							
>=1m, <2m																							
>=2m, <4m																							
>=4m																							
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																							
>=1m, <2m																							
>=2m, <4m																							
>=4m																							
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																							
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																							
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																							
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																							
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																							
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																	10						
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																	20						
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																							
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																	0.003						
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																			
Stage 5																								
S5-W3-0.3-0.4	S5-W3	0.3 - 0.4	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W3-0.5-0.6	S5-W3	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
S5-W3 0.3-0.4	S5-W3	0.3 - 0.4	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH3 2.0-2.2	BH3	2 - 2.2	Site 8A	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH2 1.3-1.5	BH2	1.3 - 1.5	Site 8A	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.2	BH5	0.2	Site 8A	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_2.0	BH5	2	Site 8A	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-3-0.3-0.4	S5-3	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
S5-3-0.3-0.4	S5-3	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IQC2	S5-3-0.3-0.4	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IQC2	S5-3-0.3-0.4	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-3-0.5-0.6	S5-3	0.5 - 0.6	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
S5-3-1.0-1.1	S5-3	1 - 1.1	Site 8A	Fill-Silty gravelly sand, brown inc. trace gravels and ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-4-1.0-1.1	S5-4	1 - 1.1	Site 8A	Fill-Silty gravelly sand, brown inc. trace gravels and ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-5-0.0-0.1	S5-5	0 - 0.1	Site 8A	Fill-Gravelly sand, brown inc. roadbase gravels	JBS&G 2023c	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-5-0.3-0.4	S5-5	0.3 - 0.4	Site 8A	Fill-Gravelly sand, brown inc. roadbase gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
S5-5-0.5-0.6	S5-5	0.5 - 0.6	Site 8A	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W2-0.5-0.6	S5-W2	0.5 - 0.6	Site 8A	Fill-Gravelly sand, dark brown inc. organics and concrete	JBS&G 2023c	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
IQA1	S5-W2-0.5-0.6	0.5 - 0.6	Site 8A	-	JBS&G 2023c	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
IQC1	S5-W2-0.5-0.6	0.5 - 0.6	Site 8A	-	JBS&G 2023c	<1	<1	<1	-	-	-	-	-	-	-	-	-	<0.0002	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005
FC075 0.2-0.3	FC075	0.2 - 0.3	Site 8A	Fill - SAND	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-
FC075 0.6-0.8	FC075	0.6 - 0.8	Site 8A	Fill - Brick	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC075 0.8-1.0	FC075	0.8 - 1	Site 8A	SAND	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-
FC075 1.0-1.2	FC075	1 - 1.2	Site 8A	SAND	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

						Chlorinated Alkenes			Solvents	Polychlorinated Biphenyls								PFAS										
						trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Acetone	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	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 (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)
						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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0005	0.0005	0.0005	0.0005	0.005
NEPM 2013 Table 1A(1) HILs Res B Soil																	1											
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																												
>=1m, <2m																												
>=2m, <4m																												
>=4m																												
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																												
>=1m, <2m																												
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>=4m																												
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																												
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																												
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																												
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																												
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																												
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																						10						
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																						20						
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																												
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																						0.003						
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																							
BH13_0.2	BH13	0.2	Site 8B	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6_0.2	BH6	0.2	Site 8B	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stage 5																												
BH7_0.2	BH7	0.2	Site 8B	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-1-0.5-0.6	S5-1	0.5 - 0.6	Site 8B	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-1-0.5-0.6	S5-1	0.5 - 0.6	Site 8B	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-1-2.0-2.1	S5-1	2 - 2.1	Site 8B	Nat-Silty clay, yellow, grey	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-2-0.3-0.4	S5-2	0.3 - 0.4	Site 8B	Fill-Gravelly sand, brown inc. igneous roadbase gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-2-0.5-0.6	S5-2	0.5 - 0.6	Site 8B	Fill-Gravelly sand, brown inc. igneous roadbase gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC073 0.2-0.3	FC073	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-
FC073 1-1.2	FC073	1 - 1.2	Site 8B	Fill - SAND	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-
FC073 1.5-1.7	FC073	1.5 - 1.7	Site 8B	CLAY	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-
FC074 0.2-0.3	FC074	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	<0.05	<0.05	<0.05	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-
QC04	FC074_0.2-0.3	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-
QC04-A	FC074_0.2-0.3	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.35	-	-	-	-	-	-	-	-	-	-	-
FC074 0.8-1	FC074	0.8 - 1	Site 8B	SAND	JBS&G 2014	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-
FC074 3.0-3.2	FC074	3 - 3.2	Site 8B	CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	PFAS																			
	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)	Perfluorononanesulfonic acid (PFNS)	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
	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	0.001	0.001	0.001	0.001	0.005	0.0002	0.0002	0.005	0.0001	0.0001	0.0001	0.0001	0.0001	0.005	0.0002	0.0001	0.0001	0.0002	0.0002	0.0001
NEPM 2013 Table 1A(1) HILs Res B Soil																				
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																				
>=1m, <2m																				
>=2m, <4m																				
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NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																				
>=1m, <2m																				
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NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																				
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																				
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																				
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses													1							
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access											2		2							2
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)													0.005							
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses													0.003							

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference																			
Stage 4																								
AS04_0.2-0.2	AS04	0.2 - 0.2	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS04_0.6-0.6	AS04	0.6 - 0.6	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS04_2-2	AS04	2 - 2	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS04_2.8-2.8	AS04	1 - 1	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09_0.2-0.5	BH09	0.2 - 0.5	Internal Road	unkown	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09_3.0-3.5	BH09	3 - 3.5	Internal Road	unkown	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10_1-1	BH10	1 - 1	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10_2-2	BH10	2 - 2	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11_1-1	BH11	1 - 1	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_0.1	BH514	0.1 - 0.2	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_1.0	BH514	1 - 1.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_2.0	BH514	2 - 2.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_3.0	BH514	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_4.0	BH514	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_5.0	BH514	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_5.5	BH514	5.5 - 5.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_0.5	BH515	0.5 - 0.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_1.5	BH515	1.5 - 1.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_2.5	BH515	2.5 - 2.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_3.5	BH515	3.5 - 3.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_4.5	BH515	4.5 - 4.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_5.5	BH515	5.5 - 5.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_0.5	BH516	0.5 - 0.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_1.5	BH516	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_2.0	BH516	2 - 2.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_3.0	BH516	3 - 3.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_5.0	BH516	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_6.0	BH516	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_0.5	BH517	0.5 - 0.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_1.5	BH517	1.5 - 1.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_2.5	BH517	2.5 - 2.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_3.5	BH517	3.5 - 3.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_4.5	BH517	4.5 - 4.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_5.5	BH517	5.5 - 5.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_6.5	BH517	6.5 - 6.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_1.0	BH520	1 - 1.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_2.0	BH520	2 - 2.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_3.0	BH520	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_3.0	BH520	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_5.0	BH520	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_5.0	BH520	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_6.0	BH520	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_6.0	BH520	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH9_0.2-0.2	BH9	0.5 - 0.5	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH9_3.0-3.5	BH9	3 - 3.5	Internal Road	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH9_0.2-0.5	BH9	0.2 - 0.5	Internal Road	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_0.2-0.3	FC099	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	PFAS																			
	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)	Perfluorononanesulfonic acid (PFNS)	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
	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	0.001	0.001	0.001	0.001	0.005	0.0002	0.0002	0.005	0.0001	0.0001	0.0001	0.0001	0.0001	0.005	0.0002	0.0001	0.0001	0.0002	0.0002	0.0001
NEPM 2013 Table 1A(1) HILs Res B Soil																				
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																				
>=1m, <2m																				
>=2m, <4m																				
>=4m																				
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																				
>=1m, <2m																				
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>=4m																				
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																				
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																				
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																				
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses													1							
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access											2		2							2
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)													0.005							
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses													0.003							
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																	
Stage 4																						
FC099_0.2-0.3	FC099	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_0.5-0.7	FC099	0.5 - 0.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_1.5-1.7	FC099	1.5 - 1.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_4.5-4.7	FC099	4.5 - 4.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_4.5-4.7	FC099	4.5 - 4.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_0.2-0.3	FC100	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_0.2-0.3	FC100	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_0.4-0.6	FC100	0.4 - 0.6	Internal Road	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_1.7-1.9	FC100	1.7 - 1.9	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_4.3-4.5	FC100	4.3 - 4.5	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_4.3-4.5	FC100	4.3 - 4.5	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC101_0.5-0.8	FC101	0.5 - 0.8	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC101_3-3.2	FC101	3 - 3.2	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC101_5.0-5.2	FC101	5 - 5.2	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_10.5	MW523	10.5 - 10.6	Internal Road	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_12.5	MW523	12.5 - 12.6	Internal Road	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_0.5	MW523	0.5 - 0.6	Internal Road	Fill - CLAY	JBS&G 2022	<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	<0.01	<0.005	<0.005	<0.005
BH523_1.0	MW523	1 - 1.1	Internal Road	Fill - CLAY	JBS&G 2022	<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	<0.01	<0.005	<0.005	<0.005
BH523_1.5	MW523	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_8.5	MW523	8.5 - 8.6	Internal Road	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_13.0	MW523	13 - 13.1	Internal Road	CLAY (CL)	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_1.5	MW523	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_2.5	MW523	2.5 - 2.6	Internal Road	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R35_0.9-1.0	R35	0.9 - 1	Internal Road	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R35_2.9-3	R35	2.9 - 3	Internal Road	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_0.1-0.2	BH8	0.1 - 0.2	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_6-6.5	BH8	6 - 6.5	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12_0.2-0.2	BH12	0.2 - 0.2	Site 19A	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_0.5	BH513	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_0.5	BH513	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_1.5	BH513	1.5 - 1.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_1.5	BH513	1.5 - 1.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.0	BH513	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.0	BH513	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.5	BH513	3.5 - 3.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.5	BH513	3.5 - 3.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_4.5	BH513	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_4.5	BH513	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_6.0	BH513	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_6.0	BH513	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_0.1	BH518	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_0.1	BH518	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_1.0	BH518	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_1.0	BH518	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_2.0	BH518	2 - 2.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_2.0	BH518	2 - 2.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_3.0	BH518	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_3.0	BH518	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_4.5	BH518	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_4.5	BH518	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	PFAS																			
	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)	Perfluorononanesulfonic acid (PFNS)	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
	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	0.001	0.001	0.001	0.001	0.005	0.0002	0.0002	0.005	0.0001	0.0001	0.0001	0.0001	0.0001	0.005	0.0002	0.0001	0.0001	0.0002	0.0002	0.0001
NEPM 2013 Table 1A(1) HILs Res B Soil																				
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																				
>=1m, <2m																				
>=2m, <4m																				
>=4m																				
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																				
>=1m, <2m																				
>=2m, <4m																				
>=4m																				
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																				
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																				
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																				
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses													1							
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access											2		2							2
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)													0.005							
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses													0.003							

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference																			
Stage 4																								
BH518_6.0	BH518	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6_1-1.5	BH6	1 - 1.5	Site 19A	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_0.1-0.1	BH8	0.1 - 0.1	Site 19A	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_0.5-0.5	BH8	0.2 - 0.4	Site 19A	Fill - Gravel	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_2.6-2.9	BH8	2.6 - 2.9	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP03_2.6-2.9	BH8_2.6-2.9	2.6 - 2.9	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP8_0.1-0.1	BHP8	0.1 - 0.1	Site 19A	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP8_0.5-0.6	BHP8	0.5 - 0.6	Site 19A	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP8_2-2.1	BHP8	2 - 2.1	Site 19A	CLAY (CL)	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC084_0.1-0.2	FC084	0.1 - 0.2	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC084_4.5-4.7	FC084	4.5 - 4.7	Site 19A	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC085_0.2-0.3	FC085	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC085_0.2-0.3	FC085	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC087_0.2-0.3	FC087	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC087_0.2-0.3	FC087	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC087_2.7-2.9	FC087	2.7 - 2.9	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC087_4.5-4.7	FC087	4.5 - 4.7	Site 19A	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC088_0.8-1	FC088	0.8 - 1	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC088_2.2-2.4	FC088	2.2 - 2.4	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.1	MW521	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	<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	<0.01	<0.005	<0.005	<0.005
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	<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	<0.01	<0.005	<0.005	<0.005
BH521_1.0	MW521	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	<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	<0.01	<0.005	<0.005	<0.005
BH521_2.0	MW521	2 - 2.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220215-PG2	BH521_0.5	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220215-PG2	BH521_0.5	0.5 - 0.5	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_2.0	MW521	2 - 2.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_3.5	MW521	3.5 - 3.6	Site 19A	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_0.5	MW522	0.5 - 0.6	Site 19A	Fill - CLAY	JBS&G 2022	<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	<0.01	<0.005	<0.005	<0.005
BH522_0.12	MW522	0.12 - 0.22	Site 19A	Fill - CLAY	JBS&G 2022	<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	<0.01	<0.005	<0.005	<0.005
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	<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	<0.01	<0.005	<0.005	<0.005
QA20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220215-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_5.0	MW522	5 - 5.1	Site 19A	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.5	MW522	1.5 - 1.6	Site 19A	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_1.0	BH519	1 - 1.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_1.0	BH519	1 - 1.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_2.0	BH519	2 - 2.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_2.0	BH519	2 - 2.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_3.0	BH519	3 - 3.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_3.0	BH519	3 - 3.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_4.0	BH519	4 - 4.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_4.0	BH519	4 - 4.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	PFAS																			
	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)	Perfluorononanesulfonic acid (PFNS)	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
	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	0.001	0.001	0.001	0.001	0.005	0.0002	0.0002	0.005	0.0001	0.0001	0.0001	0.0001	0.0001	0.005	0.0002	0.0001	0.0001	0.0002	0.0002	0.0001
NEPM 2013 Table 1A(1) HILs Res B Soil																				
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																				
>=1m, <2m																				
>=2m, <4m																				
>=4m																				
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																				
>=1m, <2m																				
>=2m, <4m																				
>=4m																				
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																				
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																				
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																				
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses													1							
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access											2		2							2
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)													0.005							
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses													0.003							

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference																			
Stage 4																								
BH519_5.0	BH519	5 - 5.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_5.0	BH519	5 - 5.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_6.0	BH519	6 - 6.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_6.0	BH519	6 - 6.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_1-1.1	BH7	1 - 1.1	Site 19B	unkown	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_2-2.1	BH7	2 - 2.1	Site 19B	unkown	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_7-7.1	BH7	7 - 7.1	Site 19B	unkown	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP7_1-1.1	BHP7	1 - 1.1	Site 19B	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP7_2-2.1	BHP7	2 - 2.1	Site 19B	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP7_7-7.1	BHP7	7 - 7.1	Site 19B	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC083_0.5-0.7	FC083	0.5 - 0.7	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC083_0.5-0.7	FC083	0.5 - 0.7	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC083_2-2.2	FC083	2 - 2.2	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC083_2-2.2	FC083	2 - 2.2	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC086_0.9-1.1	FC086	0.9 - 1.1	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC086_1.8-2	FC086	1.8 - 2	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_0.2-0.2	AS03	0.2 - 0.2	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_0.4-0.4	AS03	0.4 - 0.4	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_1-1	AS03	1 - 1	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_2-2	AS03	2 - 2	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15_0.1-0.3	BH15	0.1 - 0.3	Site 8C	Fill - SILT	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15_0.2-0.2	BH15	0.2 - 0.2	Site 8C	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16_0.2-0.2	BH16	0.2 - 0.2	Site 8C	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH3_0.2-0.4	BH3	0.2 - 0.4	Site 8C	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH3_0.7-0.9	BH3	0.7 - 0.9	Site 8C	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH528_0.5	BH528	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	<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	<0.01	<0.005	<0.005	<0.005
BH528_0.15	BH528	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	<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	<0.01	<0.005	<0.005	<0.005
QA20220216-PG3	BH528_0.15	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	<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	<0.01	<0.005	<0.005	<0.005
QC20220216-PG3	BH528_0.15	0.15 - 0.25	Site 8C	Fill_SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	-	-	<0.0001	<0.0002	-	<0.0001
BH529_0.5	BH529	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	<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	<0.01	<0.005	<0.005	<0.005
BH529_0.12	BH529	0.12 - 0.22	Site 8C	Fill - SAND	JBS&G 2022	<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	<0.01	<0.005	<0.005	<0.005
QA20220216-PG4	BH529_0.12	0.12 - 0.22	Site 8C	Fill - SAND	JBS&G 2022	<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	<0.01	<0.005	<0.005	<0.005
QC20220216-PG4	BH529_0.12	0.12 - 0.22	Site 8C	Fill_SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	-	-	<0.0001	<0.0002	-	<0.0001
BHP9_0.5-0.6	BHP9	0.5 - 0.6	Site 8C	Fill_CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP9_0.9-1	BHP9	0.9 - 1	Site 8C	Fill_CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC078_0.1-0.2	FC078	0.1 - 0.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC078_2-2.2	FC078	2 - 2.2	Site 8C	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC078_4-4.2	FC078	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC16	FC078_4-4.2	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC16-A	FC078_4-4.2	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC079_0.1-0.2	FC079	0.1 - 0.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC079_1.8-2	FC079	1.8 - 2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC081_0.2-0.3	FC081	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC081_0.8-1	FC081	0.8 - 1	Site 8C	CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC082_0.2-0.3	FC082	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC082_0.2-0.3	FC082	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC082_1.8-2	FC082	1.8 - 2	Site 8C	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC082_2.8-3	FC082	2.8 - 3	Site 8C	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC097_0.2-0.3	FC097	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC097_0.2-0.3	FC097	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	PFAS																			
	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)	Perfluorononanesulfonic acid (PFNS)	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
	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	0.001	0.001	0.001	0.001	0.005	0.0002	0.0002	0.005	0.0001	0.0001	0.0001	0.0001	0.0001	0.005	0.0002	0.0001	0.0001	0.0002	0.0002	0.0001
NEPM 2013 Table 1A(1) HILs Res B Soil																				
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																				
>=1m, <2m																				
>=2m, <4m																				
>=4m																				
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																				
>=1m, <2m																				
>=2m, <4m																				
>=4m																				
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																				
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																				
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																				
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses													1							
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access											2		2							2
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)													0.005							
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses													0.003							
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																	
Stage 4																						
FC097_1.3-1.5	FC097	1.3 - 1.5	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC097_2-2.2	FC097	2 - 2.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC097_3-3.2	FC097	3 - 3.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC098_0.2-0.3	FC098	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_6.5	MW524	6.5 - 6.6	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_7.0	MW524	7 - 7.1	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_7.5	MW524	7.5 - 7.6	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_8.5	MW524	8.5 - 8.6	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_0.1	MW524	0.1 - 0.2	Site 8C	Fill - SAND	JBS&G 2022	<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	<0.01	<0.005	<0.005	<0.005
BH524_0.5	MW524	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	<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	<0.01	<0.005	<0.005	<0.005
BH524_1.5	MW524	1.5 - 1.6	Site 8C	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH526_3.5	MW526	3.5 - 3.6	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH526_0.5	MW526	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	<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	<0.01	<0.005	<0.005	<0.005
BH526_0.15	MW526	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	<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	<0.01	<0.005	<0.005	<0.005
BH526_1.0	MW526	1 - 1.1	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH526_1.5	MW526	1.5 - 1.6	Site 8C	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH527_0.5	MW527	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	<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	<0.01	<0.005	<0.005	<0.005
BH527_1.0	MW527	1 - 1.1	Site 8C	Fill - CLAY	JBS&G 2022	<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	<0.01	<0.005	<0.005	<0.005
BH14_0.2-0.2	BH14	0.2 - 0.2	Site 8D	unknown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14_2-2	BH14	2 - 2	Site 8D	unknown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.5-0.7	BH5	0.5 - 0.7	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.6-0.8	BH5	0.6 - 0.8	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.8-0.9	BH5	0.8 - 0.9	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH1 0.5-0.7	BH5	0.5 - 0.7	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP6A_0.5-0.6	BHP6A	0.5 - 0.6	Site 8D	Fill - SILT	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP6A_2-2.1	BHP6A	2 - 2.1	Site 8D	Fill - SILT	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC077_0.8-1	FC077	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC077_1-1.2	FC077	1 - 1.2	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC077_2-2.2	FC077	2 - 2.2	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC080_0.2-0.3	FC080	0.2 - 0.3	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC080_0.8-1	FC080	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC080_0.8-1	FC080	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_0.1	MW525	0.1 - 0.2	Site 8D	Fill - SAND	JBS&G 2022	<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	<0.01	<0.005	<0.005	<0.005
BH525_0.5	MW525	0.5 - 0.6	Site 8D	Fill - SAND	JBS&G 2022	<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	<0.01	<0.005	<0.005	<0.005
BH525_1.0	MW525	1 - 1.1	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_1.0	MW525	1 - 1.1	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_3.5	MW525	3.5 - 3.6	Site 8D	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stage 5																						
BH4_0.2	BH4	0.2	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R12_0.4-0.5	R12	0.4 - 0.5	Internal Road	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R12_1.9-2	R12	1.9 - 2	Internal Road	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R14_0.9-1	R14	0.9 - 1	Internal Road	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R14_1.9-2	R14	1.9 - 2	Internal Road	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W1-0.5-0.6	S5-W1	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W1-0.5-0.6	S5-W1	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W1-2.0-2.1	S5-W1	2 - 2.1	Internal Road	Fill-Gravelly clay, dark brown inc. sandstone gravels	JBS&G 2023c	<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	<0.01	<0.005	<0.005	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	PFAS																			
	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)	Perfluorononanesulfonic acid (PFNS)	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
	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	0.001	0.001	0.001	0.001	0.005	0.0002	0.0002	0.005	0.0001	0.0001	0.0001	0.0001	0.0001	0.005	0.0002	0.0001	0.0001	0.0002	0.0002	0.0001
NEPM 2013 Table 1A(1) HILs Res B Soil																				
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																				
>=1m, <2m																				
>=2m, <4m																				
>=4m																				
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																				
>=1m, <2m																				
>=2m, <4m																				
>=4m																				
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																				
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																				
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																				
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses													1							
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access											2		2							2
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)													0.005							
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses													0.003							

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference																			
Stage 5																								
S5-W3-0.3-0.4	S5-W3	0.3 - 0.4	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W3-0.5-0.6	S5-W3	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	<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	<0.01	<0.005	<0.005	-
S5-W3 0.3-0.4	S5-W3	0.3 - 0.4	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH3 2.0-2.2	BH3	2 - 2.2	Site 8A	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH2 1.3-1.5	BH2	1.3 - 1.5	Site 8A	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.2	BH5	0.2	Site 8A	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_2.0	BH5	2	Site 8A	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-3-0.3-0.4	S5-3	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	<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	<0.01	<0.005	<0.005	-
S5-3-0.3-0.4	S5-3	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IQC2	S5-3-0.3-0.4	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IQC2	S5-3-0.3-0.4	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-3-0.5-0.6	S5-3	0.5 - 0.6	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	<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	<0.01	<0.005	<0.005	-
S5-3-1.0-1.1	S5-3	1 - 1.1	Site 8A	Fill-Silty gravelly sand, brown inc. trace gravels and ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-4-1.0-1.1	S5-4	1 - 1.1	Site 8A	Fill-Silty gravelly sand, brown inc. trace gravels and ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-5-0.0-0.1	S5-5	0 - 0.1	Site 8A	Fill-Gravelly sand, brown inc. roadbase gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-5-0.3-0.4	S5-5	0.3 - 0.4	Site 8A	Fill-Gravelly sand, brown inc. roadbase gravels	JBS&G 2023c	<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	<0.01	<0.005	<0.005	-
S5-5-0.5-0.6	S5-5	0.5 - 0.6	Site 8A	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W2-0.5-0.6	S5-W2	0.5 - 0.6	Site 8A	Fill-Gravelly sand, dark brown inc. organics and concrete	JBS&G 2023c	<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	<0.01	<0.005	<0.005	-
IQA1	S5-W2-0.5-0.6	0.5 - 0.6	Site 8A	-	JBS&G 2023c	<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	<0.01	<0.005	<0.005	-
IQC1	S5-W2-0.5-0.6	0.5 - 0.6	Site 8A	-	JBS&G 2023c	<0.001	<0.001	<0.001	<0.001	<0.005	<0.0002	<0.0002	-	<0.0001	<0.0001	<0.0001	<0.0001	0.0003	-	<0.0002	<0.0001	<0.0001	<0.0002	<0.0002	0.0003
FC075 0.2-0.3	FC075	0.2 - 0.3	Site 8A	Fill - SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC075 0.6-0.8	FC075	0.6 - 0.8	Site 8A	Fill - Brick	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC075 0.8-1.0	FC075	0.8 - 1	Site 8A	SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC075 1.0-1.2	FC075	1 - 1.2	Site 8A	SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

						PFAS																
						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)	Perfluorononanesulfonic acid (PFNS)	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
						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						0.001	0.001	0.001	0.001	0.005	0.0002	0.0002	0.005	0.0001	0.0001	0.0001	0.0001	0.0001	0.005	0.0002	0.0001	0.0001	0.0002	0.0002	0.0001
NEPM 2013 Table 1A(1) HILs Res B Soil																									
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																									
>=1m, <2m																									
>=2m, <4m																									
>=4m																									
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																									
>=1m, <2m																									
>=2m, <4m																									
>=4m																									
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																									
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																									
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																									
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																									
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																									
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																		1							
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																2		2							2
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																		0.005							
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																		0.003							
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																				
BH13_0.2	BH13	0.2	Site 8B	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6_0.2	BH6	0.2	Site 8B	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stage 5																									
BH7_0.2	BH7	0.2	Site 8B	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-1-0.5-0.6	S5-1	0.5 - 0.6	Site 8B	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-1-0.5-0.6	S5-1	0.5 - 0.6	Site 8B	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-1-2.0-2.1	S5-1	2 - 2.1	Site 8B	Nat-Silty clay, yellow, grey	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-2-0.3-0.4	S5-2	0.3 - 0.4	Site 8B	Fill-Gravelly sand, brown inc. igneous roadbase gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-2-0.5-0.6	S5-2	0.5 - 0.6	Site 8B	Fill-Gravelly sand, brown inc. igneous roadbase gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC073 0.2-0.3	FC073	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC073 1-1.2	FC073	1 - 1.2	Site 8B	Fill - SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC073 1.5-1.7	FC073	1.5 - 1.7	Site 8B	CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC074 0.2-0.3	FC074	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC04	FC074_0.2-0.3	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC04-A	FC074_0.2-0.3	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC074 0.8-1	FC074	0.8 - 1	Site 8B	SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC074 3.0-3.2	FC074	3 - 3.2	Site 8B	CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

					PFAS					MAH											Miscellaneous Hydrocarbons						
					Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of PFAS (WA DER List)	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
					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					0.005	0.0001	0.01	0.0001	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
NEPM 2013 Table 1A(1) HILs Res B Soil																											
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																											
>=1m, <2m																											
>=2m, <4m																											
>=4m																											
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																											
>=1m, <2m																											
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NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																											
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																											
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																											
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																											
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																											
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																											
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																											
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																											
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																											
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																						
Stage 4																											
AS04_0.2-0.2	AS04	0.2 - 0.2	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS04_0.6-0.6	AS04	0.6 - 0.6	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS04_2-2	AS04	2 - 2	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS04_2.8-2.8	AS04	1 - 1	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09_0.2-0.5	BH09	0.2 - 0.5	Internal Road	unkown	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09_3.0-3.5	BH09	3 - 3.5	Internal Road	unkown	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10_1-1	BH10	1 - 1	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10_2-2	BH10	2 - 2	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11_1-1	BH11	1 - 1	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_0.1	BH514	0.1 - 0.2	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_1.0	BH514	1 - 1.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_2.0	BH514	2 - 2.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_3.0	BH514	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_4.0	BH514	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_5.0	BH514	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_5.5	BH514	5.5 - 5.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_0.5	BH515	0.5 - 0.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_1.5	BH515	1.5 - 1.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_2.5	BH515	2.5 - 2.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_3.5	BH515	3.5 - 3.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_4.5	BH515	4.5 - 4.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_5.5	BH515	5.5 - 5.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_0.5	BH516	0.5 - 0.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_1.5	BH516	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_2.0	BH516	2 - 2.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_3.0	BH516	3 - 3.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_5.0	BH516	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_6.0	BH516	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_0.5	BH517	0.5 - 0.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_1.5	BH517	1.5 - 1.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_2.5	BH517	2.5 - 2.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_3.5	BH517	3.5 - 3.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_4.5	BH517	4.5 - 4.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_5.5	BH517	5.5 - 5.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_6.5	BH517	6.5 - 6.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_1.0	BH520	1 - 1.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_2.0	BH520	2 - 2.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_3.0	BH520	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_3.0	BH520	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_5.0	BH520	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_5.0	BH520	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_6.0	BH520	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_6.0	BH520	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH9_0.2-0.2	BH9	0.5 - 0.5	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH9_3.0-3.5	BH9	3 - 3.5	Internal Road	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH9_0.2-0.5	BH9	0.2 - 0.5	Internal Road	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_0.2-0.3	FC099	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

						PFAS					MAH											Miscellaneous Hydrocarbons						
						Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of PFAS (WA DER List)	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
						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						0.005	0.0001	0.01	0.0001	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
NEPM 2013 Table 1A(1) HILs Res B Soil																												
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																												
>=1m, <2m																												
>=2m, <4m																												
>=4m																												
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																												
>=1m, <2m																												
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NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																												
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																												
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																												
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																												
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																												
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																												
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																												
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																												
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																												
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																							
Stage 4																												
FC099_0.2-0.3	FC099	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_0.5-0.7	FC099	0.5 - 0.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_1.5-1.7	FC099	1.5 - 1.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_4.5-4.7	FC099	4.5 - 4.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_4.5-4.7	FC099	4.5 - 4.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_0.2-0.3	FC100	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_0.2-0.3	FC100	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_0.4-0.6	FC100	0.4 - 0.6	Internal Road	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_1.7-1.9	FC100	1.7 - 1.9	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_4.3-4.5	FC100	4.3 - 4.5	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_4.3-4.5	FC100	4.3 - 4.5	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC101_0.5-0.8	FC101	0.5 - 0.8	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC101_3-3.2	FC101	3 - 3.2	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC101_5.0-5.2	FC101	5 - 5.2	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_10.5	MW523	10.5 - 10.6	Internal Road	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_12.5	MW523	12.5 - 12.6	Internal Road	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_0.5	MW523	0.5 - 0.6	Internal Road	Fill - CLAY	JBS&G 2022	<0.005	<0.005	<0.01	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_1.0	MW523	1 - 1.1	Internal Road	Fill - CLAY	JBS&G 2022	<0.005	<0.005	<0.01	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_1.5	MW523	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_8.5	MW523	8.5 - 8.6	Internal Road	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_13.0	MW523	13 - 13.1	Internal Road	CLAY (CL)	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_1.5	MW523	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_2.5	MW523	2.5 - 2.6	Internal Road	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R35_0.9-1.0	R35	0.9 - 1	Internal Road	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R35_2.9-3	R35	2.9 - 3	Internal Road	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_0.1-0.2	BH8	0.1 - 0.2	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_6-6.5	BH8	6 - 6.5	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12_0.2-0.2	BH12	0.2 - 0.2	Site 19A	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_0.5	BH513	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_0.5	BH513	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_1.5	BH513	1.5 - 1.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_1.5	BH513	1.5 - 1.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.0	BH513	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.0	BH513	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.5	BH513	3.5 - 3.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.5	BH513	3.5 - 3.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_4.5	BH513	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_4.5	BH513	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_6.0	BH513	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_6.0	BH513	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_0.1	BH518	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_0.1	BH518	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_1.0	BH518	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_1.0	BH518	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_2.0	BH518	2 - 2.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_2.0	BH518	2 - 2.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_3.0	BH518	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_3.0	BH518	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_4.5	BH518	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_4.5	BH518	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	PFAS					MAH											Miscellaneous Hydrocarbons						
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of PFAS (WA DER List)	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
	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	0.005	0.0001	0.01	0.0001	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
NEPM 2013 Table 1A(1) HILs Res B Soil																							
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																							
>=1m, <2m																							
>=2m, <4m																							
>=4m																							
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																							
>=1m, <2m																							
>=2m, <4m																							
>=4m																							
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																							
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																							
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																							
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																							
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																							
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																							
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																							
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																							
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																							

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference																				
Stage 4																									
BH518_6.0	BH518	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6_1-1.5	BH6	1 - 1.5	Site 19A	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_0.1-0.1	BH8	0.1 - 0.1	Site 19A	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_0.5-0.5	BH8	0.2 - 0.4	Site 19A	Fill - Gravel	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_2.6-2.9	BH8	2.6 - 2.9	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP03_2.6-2.9	BH8_2.6-2.9	2.6 - 2.9	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP8_0.1-0.1	BHP8	0.1 - 0.1	Site 19A	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP8_0.5-0.6	BHP8	0.5 - 0.6	Site 19A	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP8_2-2.1	BHP8	2 - 2.1	Site 19A	CLAY (CL)	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC084_0.1-0.2	FC084	0.1 - 0.2	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC084_4.5-4.7	FC084	4.5 - 4.7	Site 19A	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC085_0.2-0.3	FC085	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC085_0.2-0.3	FC085	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC087_0.2-0.3	FC087	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC087_0.2-0.3	FC087	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC087_2.7-2.9	FC087	2.7 - 2.9	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC087_4.5-4.7	FC087	4.5 - 4.7	Site 19A	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC088_0.8-1	FC088	0.8 - 1	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC088_2.2-2.4	FC088	2.2 - 2.4	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.1	MW521	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	<0.005	<0.005	<0.01	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	<0.005	<0.005	<0.01	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_1.0	MW521	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	<0.005	<0.005	<0.01	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_2.0	MW521	2 - 2.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220215-PG2	BH521_0.5	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220215-PG2	BH521_0.5	0.5 - 0.5	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_2.0	MW521	2 - 2.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_3.5	MW521	3.5 - 3.6	Site 19A	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_0.5	MW522	0.5 - 0.6	Site 19A	Fill - CLAY	JBS&G 2022	<0.005	<0.005	<0.01	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_0.12	MW522	0.12 - 0.22	Site 19A	Fill - CLAY	JBS&G 2022	<0.005	<0.005	<0.01	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	<0.005	<0.005	<0.01	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220215-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_5.0	MW522	5 - 5.1	Site 19A	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.5	MW522	1.5 - 1.6	Site 19A	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_1.0	BH519	1 - 1.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_1.0	BH519	1 - 1.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_2.0	BH519	2 - 2.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_2.0	BH519	2 - 2.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_3.0	BH519	3 - 3.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_3.0	BH519	3 - 3.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_4.0	BH519	4 - 4.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_4.0	BH519	4 - 4.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	PFAS					MAH											Miscellaneous Hydrocarbons						
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of PFAS (WA DER List)	Sum of PFAS	Perfluorononanesulfonic acid (PFNS)	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
	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	0.005	0.0001	0.01	0.0001	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
NEPM 2013 Table 1A(1) HILs Res B Soil																							
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																							
>=1m, <2m																							
>=2m, <4m																							
>=4m																							
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																							
>=1m, <2m																							
>=2m, <4m																							
>=4m																							
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																							
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																							
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																							
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																							
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																							
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																							
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																							
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																							
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																							

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference																						
Stage 4																											
BH519_5.0	BH519	5 - 5.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_5.0	BH519	5 - 5.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_6.0	BH519	6 - 6.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_6.0	BH519	6 - 6.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_1-1.1	BH7	1 - 1.1	Site 19B	unkown	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_2-2.1	BH7	2 - 2.1	Site 19B	unkown	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_7-7.1	BH7	7 - 7.1	Site 19B	unkown	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP7_1-1.1	BHP7	1 - 1.1	Site 19B	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP7_2-2.1	BHP7	2 - 2.1	Site 19B	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP7_7-7.1	BHP7	7 - 7.1	Site 19B	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC083_0.5-0.7	FC083	0.5 - 0.7	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC083_0.5-0.7	FC083	0.5 - 0.7	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC083_2-2.2	FC083	2 - 2.2	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC083_2-2.2	FC083	2 - 2.2	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC086_0.9-1.1	FC086	0.9 - 1.1	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC086_1.8-2	FC086	1.8 - 2	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_0.2-0.2	AS03	0.2 - 0.2	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_0.4-0.4	AS03	0.4 - 0.4	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_1-1	AS03	1 - 1	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_2-2	AS03	2 - 2	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15_0.1-0.3	BH15	0.1 - 0.3	Site 8C	Fill - SILT	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15_0.2-0.2	BH15	0.2 - 0.2	Site 8C	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16_0.2-0.2	BH16	0.2 - 0.2	Site 8C	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH3_0.2-0.4	BH3	0.2 - 0.4	Site 8C	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH3_0.7-0.9	BH3	0.7 - 0.9	Site 8C	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH528_0.5	BH528	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	<0.005	<0.005	<0.01	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH528_0.15	BH528	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	<0.005	<0.005	<0.01	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220216-PG3	BH528_0.15	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	<0.005	<0.005	<0.01	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220216-PG3	BH528_0.15	0.15 - 0.25	Site 8C	Fill_SAND	JBS&G 2022	-	<0.0001	-	<0.0001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH529_0.5	BH529	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	<0.005	<0.005	<0.01	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH529_0.12	BH529	0.12 - 0.22	Site 8C	Fill - SAND	JBS&G 2022	<0.005	<0.005	<0.01	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220216-PG4	BH529_0.12	0.12 - 0.22	Site 8C	Fill - SAND	JBS&G 2022	<0.005	<0.005	<0.01	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220216-PG4	BH529_0.12	0.12 - 0.22	Site 8C	Fill_SAND	JBS&G 2022	-	<0.0001	-	<0.0001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP9_0.5-0.6	BHP9	0.5 - 0.6	Site 8C	Fill_CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP9_0.9-1	BHP9	0.9 - 1	Site 8C	Fill_CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC078_0.1-0.2	FC078	0.1 - 0.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC078_2-2.2	FC078	2 - 2.2	Site 8C	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC078_4-4.2	FC078	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	<0.05	<0.05	-	-	-	-	<0.05	-	-	<0.05	<0.05	<0.05	<0.05	-	<0.5	<0.05	<0.05	<0.05
QC16	FC078_4-4.2	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	<0.05	<0.05	-	-	-	-	<0.05	-	-	<0.05	<0.05	<0.05	<0.05	-	<0.5	<0.05	<0.05	<0.05
QC16-A	FC078_4-4.2	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	-	-	-
FC079_0.1-0.2	FC079	0.1 - 0.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC079_1.8-2	FC079	1.8 - 2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC081_0.2-0.3	FC081	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC081_0.8-1	FC081	0.8 - 1	Site 8C	CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC082_0.2-0.3	FC082	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC082_0.2-0.3	FC082	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC082_1.8-2	FC082	1.8 - 2	Site 8C	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC082_2.8-3	FC082	2.8 - 3	Site 8C	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC097_0.2-0.3	FC097	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC097_0.2-0.3	FC097	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

					PFAS					MAH											Miscellaneous Hydrocarbons						
					Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of PFAS (WA DER List)	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
					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					0.005	0.0001	0.01	0.0001	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
NEPM 2013 Table 1A(1) HILs Res B Soil																											
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																											
>=1m, <2m																											
>=2m, <4m																											
>=4m																											
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																											
>=1m, <2m																											
>=2m, <4m																											
>=4m																											
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																											
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																											
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																											
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																											
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																											
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																											
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																											
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																											
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																											
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																						
Stage 4																											
FC097_1.3-1.5	FC097	1.3 - 1.5	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC097_2-2.2	FC097	2 - 2.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC097_3-3.2	FC097	3 - 3.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC098_0.2-0.3	FC098	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_6.5	MW524	6.5 - 6.6	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_7.0	MW524	7 - 7.1	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_7.5	MW524	7.5 - 7.6	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_8.5	MW524	8.5 - 8.6	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_0.1	MW524	0.1 - 0.2	Site 8C	Fill - SAND	JBS&G 2022	<0.005	<0.005	<0.01	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_0.5	MW524	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	<0.005	<0.005	<0.01	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_1.5	MW524	1.5 - 1.6	Site 8C	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH526_3.5	MW526	3.5 - 3.6	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH526_0.5	MW526	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	<0.005	<0.005	<0.01	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH526_0.15	MW526	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	<0.005	<0.005	<0.01	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH526_1.0	MW526	1 - 1.1	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH526_1.5	MW526	1.5 - 1.6	Site 8C	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH527_0.5	MW527	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	<0.005	<0.005	<0.01	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH527_1.0	MW527	1 - 1.1	Site 8C	Fill - CLAY	JBS&G 2022	<0.005	<0.005	<0.01	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14_0.2-0.2	BH14	0.2 - 0.2	Site 8D	unknown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14_2-2	BH14	2 - 2	Site 8D	unknown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.5-0.7	BH5	0.5 - 0.7	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.6-0.8	BH5	0.6 - 0.8	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.8-0.9	BH5	0.8 - 0.9	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH1 0.5-0.7	BH5	0.5 - 0.7	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP6A_0.5-0.6	BHP6A	0.5 - 0.6	Site 8D	Fill - SILT	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP6A_2-2.1	BHP6A	2 - 2.1	Site 8D	Fill - SILT	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC077_0.8-1	FC077	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC077_1-1.2	FC077	1 - 1.2	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC077_2-2.2	FC077	2 - 2.2	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC080_0.2-0.3	FC080	0.2 - 0.3	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC080_0.8-1	FC080	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC080_0.8-1	FC080	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_0.1	MW525	0.1 - 0.2	Site 8D	Fill - SAND	JBS&G 2022	<0.005	<0.005	<0.01	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_0.5	MW525	0.5 - 0.6	Site 8D	Fill - SAND	JBS&G 2022	<0.005	<0.005	<0.01	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_1.0	MW525	1 - 1.1	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_1.0	MW525	1 - 1.1	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_3.5	MW525	3.5 - 3.6	Site 8D	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stage 5																											
BH4_0.2	BH4	0.2	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R12_0.4-0.5	R12	0.4 - 0.5	Internal Road	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R12_1.9-2	R12	1.9 - 2	Internal Road	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R14_0.9-1	R14	0.9 - 1	Internal Road	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R14_1.9-2	R14	1.9 - 2	Internal Road	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W1-0.5-0.6	S5-W1	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics and concrete	JBS&G 2023c	-	-	-	-	-	<0.5	<0.5	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
S5-W1-0.5-0.6	S5-W1	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W1-2.0-2.1	S5-W1	2 - 2.1	Internal Road	Fill-Gravelly clay, dark brown inc. sandstone gravels	JBS&G 2023c	-	-	-	-	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	PFAS					MAH											Miscellaneous Hydrocarbons						
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of PFAS (WA DER List)	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
	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	0.005	0.0001	0.01	0.0001	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
NEPM 2013 Table 1A(1) HILs Res B Soil																							
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																							
>=1m, <2m																							
>=2m, <4m																							
>=4m																							
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																							
>=1m, <2m																							
>=2m, <4m																							
>=4m																							
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																							
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																							
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																							
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																							
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																							
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																							
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																							
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																							
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																							
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																					
Stage 5																										
S5-W3-0.3-0.4	S5-W3	0.3 - 0.4	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	-	-	-	-	-	<0.5	<0.5	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
S5-W3-0.5-0.6	S5-W3	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	-	-	-	-	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W3 0.3-0.4	S5-W3	0.3 - 0.4	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH3 2.0-2.2	BH3	2 - 2.2	Site 8A	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH2 1.3-1.5	BH2	1.3 - 1.5	Site 8A	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.2	BH5	0.2	Site 8A	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_2.0	BH5	2	Site 8A	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-3-0.3-0.4	S5-3	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	<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
S5-3-0.3-0.4	S5-3	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IQC2	S5-3-0.3-0.4	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IQC2	S5-3-0.3-0.4	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-3-0.5-0.6	S5-3	0.5 - 0.6	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-3-1.0-1.1	S5-3	1 - 1.1	Site 8A	Fill-Silty gravelly sand, brown inc. trace gravels and ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-4-1.0-1.1	S5-4	1 - 1.1	Site 8A	Fill-Silty gravelly sand, brown inc. trace gravels and ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-5-0.0-0.1	S5-5	0 - 0.1	Site 8A	Fill-Gravelly sand, brown inc. roadbase gravels	JBS&G 2023c	-	-	-	-	-	<0.5	<0.5	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
S5-5-0.3-0.4	S5-5	0.3 - 0.4	Site 8A	Fill-Gravelly sand, brown inc. roadbase gravels	JBS&G 2023c	-	-	-	-	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-5-0.5-0.6	S5-5	0.5 - 0.6	Site 8A	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W2-0.5-0.6	S5-W2	0.5 - 0.6	Site 8A	Fill-Gravelly sand, dark brown inc. organics and concrete	JBS&G 2023c	-	-	-	-	<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
IQA1	S5-W2-0.5-0.6	0.5 - 0.6	Site 8A	-	JBS&G 2023c	-	-	-	-	<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
IQC1	S5-W2-0.5-0.6	0.5 - 0.6	Site 8A	-	JBS&G 2023c	-	0.0003	-	0.0003	-	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	-	-	-
FC075 0.2-0.3	FC075	0.2 - 0.3	Site 8A	Fill - SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC075 0.6-0.8	FC075	0.6 - 0.8	Site 8A	Fill - Brick	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC075 0.8-1.0	FC075	0.8 - 1	Site 8A	SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC075 1.0-1.2	FC075	1 - 1.2	Site 8A	SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

						PFAS					MAH											Miscellaneous Hydrocarbons						
						Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of PFAS (WA DER List)	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
						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						0.005	0.0001	0.01	0.0001	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
NEPM 2013 Table 1A(1) HILs Res B Soil																												
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																												
>=1m, <2m																												
>=2m, <4m																												
>=4m																												
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																												
>=1m, <2m																												
>=2m, <4m																												
>=4m																												
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																												
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																												
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																												
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																												
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																												
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																												
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																												
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																												
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																												
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																							
BH13_0.2	BH13	0.2	Site 8B	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6_0.2	BH6	0.2	Site 8B	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stage 5																												
BH7_0.2	BH7	0.2	Site 8B	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-1-0.5-0.6	S5-1	0.5 - 0.6	Site 8B	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-1-0.5-0.6	S5-1	0.5 - 0.6	Site 8B	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-1-2.0-2.1	S5-1	2 - 2.1	Site 8B	Nat-Silty clay, yellow, grey	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-2-0.3-0.4	S5-2	0.3 - 0.4	Site 8B	Fill-Gravelly sand, brown inc. igneous roadbase gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-2-0.5-0.6	S5-2	0.5 - 0.6	Site 8B	Fill-Gravelly sand, brown inc. igneous roadbase gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC073 0.2-0.3	FC073	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC073 1-1.2	FC073	1 - 1.2	Site 8B	Fill - SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC073 1.5-1.7	FC073	1.5 - 1.7	Site 8B	CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC074 0.2-0.3	FC074	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	-	-	-	-	-	<0.05	<0.05	-	-	-	-	<0.05	-	-	<0.05	<0.05	<0.05	<0.05	-	<0.5	<0.05	<0.05	<0.05
QC04	FC074_0.2-0.3	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	-	-	-	-	-	<0.05	<0.05	-	-	-	-	<0.05	-	-	<0.05	<0.05	<0.05	<0.05	-	<0.5	<0.05	<0.05	<0.05
QC04-A	FC074_0.2-0.3	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	-	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	-	-	-
FC074 0.8-1	FC074	0.8 - 1	Site 8B	SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC074 3.0-3.2	FC074	3 - 3.2	Site 8B	CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

							Chlorinated Benzenes						Trihalomethanes				Acid Sulphate Soils										
							1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	KCl Extractable Sulfur	Liming Rate	Net Acidity (acidity units)	Net Acidity (sulfur units)	Peroxide Oxidisable Sulfur	pH (KCl)	Sulfur in Peroxide	Titratable Actual Acidity	Titratable Peroxide Acidity	Titratable Sulfidic Acidity	pH (Ox)
							mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%	kg CaCO3/	mol H+/t	%S	%	pH Unit	%	mol H+/t	mole H+/t	mole H+/t	pH Unit
EQL							1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.005	1	10	0.02	0.02	0.1	0.005	2	2	2	0.1
NEPM 2013 Table 1A(1) HILs Res B Soil																											
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																											
>=1m, <2m																											
>=2m, <4m																											
>=4m																											
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																											
>=1m, <2m																											
>=2m, <4m																											
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NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																											
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NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																											
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																											
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																											
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																											
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																											
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																											
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																											
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																						
Stage 4																											
AS04_0.2-0.2	AS04	0.2 - 0.2	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS04_0.6-0.6	AS04	0.6 - 0.6	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS04_2-2	AS04	2 - 2	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS04_2.8-2.8	AS04	1 - 1	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09_0.2-0.5	BH09	0.2 - 0.5	Internal Road	unkown	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09_3.0-3.5	BH09	3 - 3.5	Internal Road	unkown	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10_1-1	BH10	1 - 1	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10_2-2	BH10	2 - 2	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11_1-1	BH11	1 - 1	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_0.1	BH514	0.1 - 0.2	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_1.0	BH514	1 - 1.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_2.0	BH514	2 - 2.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_3.0	BH514	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_4.0	BH514	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_5.0	BH514	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_5.5	BH514	5.5 - 5.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_0.5	BH515	0.5 - 0.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_1.5	BH515	1.5 - 1.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_2.5	BH515	2.5 - 2.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_3.5	BH515	3.5 - 3.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_4.5	BH515	4.5 - 4.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH515_5.5	BH515	5.5 - 5.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_0.5	BH516	0.5 - 0.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_1.5	BH516	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_2.0	BH516	2 - 2.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_3.0	BH516	3 - 3.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_5.0	BH516	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH516_6.0	BH516	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_0.5	BH517	0.5 - 0.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_1.5	BH517	1.5 - 1.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_2.5	BH517	2.5 - 2.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_3.5	BH517	3.5 - 3.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_4.5	BH517	4.5 - 4.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_5.5	BH517	5.5 - 5.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH517_6.5	BH517	6.5 - 6.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_1.0	BH520	1 - 1.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_2.0	BH520	2 - 2.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_3.0	BH520	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_3.0	BH520	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_5.0	BH520	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_5.0	BH520	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_6.0	BH520	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_6.0	BH520	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH9_0.2-0.2	BH9	0.5 - 0.5	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH9_3.0-3.5	BH9	3 - 3.5	Internal Road	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH9_0.2-0.5	BH9	0.2 - 0.5	Internal Road	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_0.2-0.3	FC099	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

							Chlorinated Benzenes						Trihalomethanes				Acid Sulphate Soils										
							1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	KCl Extractable Sulfur	Liming Rate	Net Acidity (acidity units)	Net Acidity (sulfur units)	Peroxide Oxidisable Sulfur	pH (KCl)	Sulfur in Peroxide	Titratable Actual Acidity	Titratable Peroxide Acidity	Titratable Sulfidic Acidity	pH (Ox)
							mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%	kg CaCO3/	mol H+/t	%S	%	pH Unit	%	mol H+/t	mole H+/t	mole H+/t	pH Unit
EQL							1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.005	1	10	0.02	0.02	0.1	0.005	2	2	2	0.1
NEPM 2013 Table 1A(1) HILs Res B Soil																											
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																											
>=1m, <2m																											
>=2m, <4m																											
>=4m																											
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																											
>=1m, <2m																											
>=2m, <4m																											
>=4m																											
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																											
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																											
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																											
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																											
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																											
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																											
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																											
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																											
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																											
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																						
Stage 4																											
FC099_0.2-0.3	FC099	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_0.5-0.7	FC099	0.5 - 0.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_1.5-1.7	FC099	1.5 - 1.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_4.5-4.7	FC099	4.5 - 4.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_4.5-4.7	FC099	4.5 - 4.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_0.2-0.3	FC100	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_0.2-0.3	FC100	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_0.4-0.6	FC100	0.4 - 0.6	Internal Road	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_1.7-1.9	FC100	1.7 - 1.9	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_4.3-4.5	FC100	4.3 - 4.5	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_4.3-4.5	FC100	4.3 - 4.5	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC101_0.5-0.8	FC101	0.5 - 0.8	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC101_3-3.2	FC101	3 - 3.2	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC101_5.0-5.2	FC101	5 - 5.2	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_10.5	MW523	10.5 - 10.6	Internal Road	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	<0.005	1	17	0.03	<0.02	4.8	<0.005	17	5	<2	5.4
BH523_12.5	MW523	12.5 - 12.6	Internal Road	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	<0.005	1	10	0.02	<0.02	4.9	<0.005	10	<2	<2	5.5
BH523_0.5	MW523	0.5 - 0.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_1.0	MW523	1 - 1.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_1.5	MW523	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_8.5	MW523	8.5 - 8.6	Internal Road	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_13.0	MW523	13 - 13.1	Internal Road	CLAY (CL)	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_1.5	MW523	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_2.5	MW523	2.5 - 2.6	Internal Road	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R35_0.9-1.0	R35	0.9 - 1	Internal Road	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R35_2.9-3	R35	2.9 - 3	Internal Road	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_0.1-0.2	BH8	0.1 - 0.2	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_6-6.5	BH8	6 - 6.5	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12_0.2-0.2	BH12	0.2 - 0.2	Site 19A	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_0.5	BH513	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_0.5	BH513	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_1.5	BH513	1.5 - 1.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_1.5	BH513	1.5 - 1.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.0	BH513	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.0	BH513	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.5	BH513	3.5 - 3.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.5	BH513	3.5 - 3.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_4.5	BH513	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_4.5	BH513	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_6.0	BH513	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_6.0	BH513	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_0.1	BH518	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_0.1	BH518	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_1.0	BH518	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_1.0	BH518	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_2.0	BH518	2 - 2.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_2.0	BH518	2 - 2.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_3.0	BH518	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_3.0	BH518	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_4.5	BH518	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_4.5	BH518	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

							Chlorinated Benzenes						Trihalomethanes				Acid Sulphate Soils										
							1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	KCl Extractable Sulfur	Liming Rate	Net Acidity (acidity units)	Net Acidity (sulfur units)	Peroxide Oxidisable Sulfur	pH (KCl)	Sulfur in Peroxide	Titratable Actual Acidity	Titratable Peroxide Acidity	Titratable Sulfidic Acidity	pH (Ox)
							mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%	kg CaCO3/	mol H+/t	%S	%	pH Unit	%	mol H+/t	mole H+/t	mole H+/t	pH Unit
EQL							1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.005	1	10	0.02	0.02	0.1	0.005	2	2	2	0.1
NEPM 2013 Table 1A(1) HILs Res B Soil																											
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																											
>=1m, <2m																											
>=2m, <4m																											
>=4m																											
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																											
>=1m, <2m																											
>=2m, <4m																											
>=4m																											
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																											
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																											
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																											
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																											
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																											
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																											
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																											
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																											
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																											
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																						
Stage 4																											
BH518_6.0	BH518	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6_1-1.5	BH6	1 - 1.5	Site 19A	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_0.1-0.1	BH8	0.1 - 0.1	Site 19A	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_0.5-0.5	BH8	0.2 - 0.4	Site 19A	Fill - Gravel	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_2.6-2.9	BH8	2.6 - 2.9	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP03_2.6-2.9	BH8_2.6-2.9	2.6 - 2.9	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP8_0.1-0.1	BHP8	0.1 - 0.1	Site 19A	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP8_0.5-0.6	BHP8	0.5 - 0.6	Site 19A	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP8_2-2.1	BHP8	2 - 2.1	Site 19A	CLAY (CL)	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC084_0.1-0.2	FC084	0.1 - 0.2	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC084_4.5-4.7	FC084	4.5 - 4.7	Site 19A	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC085_0.2-0.3	FC085	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC085_0.2-0.3	FC085	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC087_0.2-0.3	FC087	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC087_0.2-0.3	FC087	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC087_2.7-2.9	FC087	2.7 - 2.9	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC087_4.5-4.7	FC087	4.5 - 4.7	Site 19A	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC088_0.8-1	FC088	0.8 - 1	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC088_2.2-2.4	FC088	2.2 - 2.4	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.1	MW521	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_1.0	MW521	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_2.0	MW521	2 - 2.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220215-PG2	BH521_0.5	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220215-PG2	BH521_0.5	0.5 - 0.5	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_2.0	MW521	2 - 2.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_3.5	MW521	3.5 - 3.6	Site 19A	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_0.5	MW522	0.5 - 0.6	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_0.12	MW522	0.12 - 0.22	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220215-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_5.0	MW522	5 - 5.1	Site 19A	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.5	MW522	1.5 - 1.6	Site 19A	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_1.0	BH519	1 - 1.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_1.0	BH519	1 - 1.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_2.0	BH519	2 - 2.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_2.0	BH519	2 - 2.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_3.0	BH519	3 - 3.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_3.0	BH519	3 - 3.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_4.0	BH519	4 - 4.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_4.0	BH519	4 - 4.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	Chlorinated Benzenes						Trihalomethanes				Acid Sulphate Soils										
	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	KCl Extractable Sulfur	Liming Rate	Net Acidity (acidity units)	Net Acidity (sulfur units)	Peroxide Oxidisable Sulfur	pH (KCl)	Sulfur in Peroxide	Titratable Actual Acidity	Titratable Peroxide Acidity	Titratable Sulfidic Acidity	pH (Ox)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%	kg CaCO3/	mol H+/t	%S	%	pH Unit	%	mol H+/t	mole H+/t	mole H+/t	pH Unit
EQL	1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.005	1	10	0.02	0.02	0.1	0.005	2	2	2	0.1
NEPM 2013 Table 1A(1) HILs Res B Soil																					
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																					
>=1m, <2m																					
>=2m, <4m																					
>=4m																					
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																					
>=1m, <2m																					
>=2m, <4m																					
>=4m																					
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																					
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																					
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																					
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																					
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																					
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																					
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																					
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																					
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																					
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																				
Stage 4																									
BH519_5.0	BH519	5 - 5.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_5.0	BH519	5 - 5.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_6.0	BH519	6 - 6.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_6.0	BH519	6 - 6.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_1-1.1	BH7	1 - 1.1	Site 19B	unkown	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_2-2.1	BH7	2 - 2.1	Site 19B	unkown	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_7-7.1	BH7	7 - 7.1	Site 19B	unkown	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP7_1-1.1	BHP7	1 - 1.1	Site 19B	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP7_2-2.1	BHP7	2 - 2.1	Site 19B	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP7_7-7.1	BHP7	7 - 7.1	Site 19B	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC083_0.5-0.7	FC083	0.5 - 0.7	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC083_0.5-0.7	FC083	0.5 - 0.7	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC083_2-2.2	FC083	2 - 2.2	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC083_2-2.2	FC083	2 - 2.2	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC086_0.9-1.1	FC086	0.9 - 1.1	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC086_1.8-2	FC086	1.8 - 2	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_0.2-0.2	AS03	0.2 - 0.2	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_0.4-0.4	AS03	0.4 - 0.4	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_1-1	AS03	1 - 1	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_2-2	AS03	2 - 2	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15_0.1-0.3	BH15	0.1 - 0.3	Site 8C	Fill - SILT	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15_0.2-0.2	BH15	0.2 - 0.2	Site 8C	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16_0.2-0.2	BH16	0.2 - 0.2	Site 8C	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH3_0.2-0.4	BH3	0.2 - 0.4	Site 8C	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH3_0.7-0.9	BH3	0.7 - 0.9	Site 8C	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH528_0.5	BH528	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH528_0.15	BH528	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220216-PG3	BH528_0.15	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220216-PG3	BH528_0.15	0.15 - 0.25	Site 8C	Fill_SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH529_0.5	BH529	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH529_0.12	BH529	0.12 - 0.22	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220216-PG4	BH529_0.12	0.12 - 0.22	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220216-PG4	BH529_0.12	0.12 - 0.22	Site 8C	Fill_SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP9_0.5-0.6	BHP9	0.5 - 0.6	Site 8C	Fill_CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP9_0.9-1	BHP9	0.9 - 1	Site 8C	Fill_CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC078_0.1-0.2	FC078	0.1 - 0.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC078_2-2.2	FC078	2 - 2.2	Site 8C	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC078_4-4.2	FC078	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-
QC16	FC078_4-4.2	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	<0.05	<0.05	<0.05	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-
QC16-A	FC078_4-4.2	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	<1	<1	<1	<1	<1	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-
FC079_0.1-0.2	FC079	0.1 - 0.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC079_1.8-2	FC079	1.8 - 2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC081_0.2-0.3	FC081	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC081_0.8-1	FC081	0.8 - 1	Site 8C	CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC082_0.2-0.3	FC082	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC082_0.2-0.3	FC082	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC082_1.8-2	FC082	1.8 - 2	Site 8C	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC082_2.8-3	FC082	2.8 - 3	Site 8C	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC097_0.2-0.3	FC097	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC097_0.2-0.3	FC097	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	Chlorinated Benzenes						Trihalomethanes				Acid Sulphate Soils										
	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	KCl Extractable Sulfur	Liming Rate	Net Acidity (acidity units)	Net Acidity (sulfur units)	Peroxide Oxidisable Sulfur	pH (KCl)	Sulfur in Peroxide	Titratable Actual Acidity	Titratable Peroxide Acidity	Titratable Sulfidic Acidity	pH (Ox)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%	kg CaCO3/	mol H+/t	%S	%	pH Unit	%	mol H+/t	mole H+/t	mole H+/t	pH Unit
EQL	1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.005	1	10	0.02	0.02	0.1	0.005	2	2	2	0.1
NEPM 2013 Table 1A(1) HILs Res B Soil																					
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																					
>=1m, <2m																					
>=2m, <4m																					
>=4m																					
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																					
>=1m, <2m																					
>=2m, <4m																					
>=4m																					
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																					
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																					
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																					
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																					
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																					
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																					
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																					
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																					
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																					
Stage 4																					
FC097_1.3-1.5	FC097	1.3 - 1.5	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC097_2-2.2	FC097	2 - 2.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC097_3-3.2	FC097	3 - 3.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC098_0.2-0.3	FC098	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_6.5	MW524	6.5 - 6.6	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	<0.005	3	45	0.07	0.04	4.8	0.04	19	56	37	4.7
BH524_7.0	MW524	7 - 7.1	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	<0.005	3	45	0.07	0.04	4.8	0.04	20	59	38	4.6
BH524_7.5	MW524	7.5 - 7.6	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_8.5	MW524	8.5 - 8.6	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_0.1	MW524	0.1 - 0.2	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_0.5	MW524	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_1.5	MW524	1.5 - 1.6	Site 8C	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH526_3.5	MW526	3.5 - 3.6	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH526_0.5	MW526	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH526_0.15	MW526	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH526_1.0	MW526	1 - 1.1	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH526_1.5	MW526	1.5 - 1.6	Site 8C	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH527_0.5	MW527	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH527_1.0	MW527	1 - 1.1	Site 8C	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14_0.2-0.2	BH14	0.2 - 0.2	Site 8D	unknown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14_2-2	BH14	2 - 2	Site 8D	unknown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.5-0.7	BH5	0.5 - 0.7	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.6-0.8	BH5	0.6 - 0.8	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.8-0.9	BH5	0.8 - 0.9	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH1 0.5-0.7	BH5	0.5 - 0.7	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP6A_0.5-0.6	BHP6A	0.5 - 0.6	Site 8D	Fill - SILT	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP6A_2-2.1	BHP6A	2 - 2.1	Site 8D	Fill - SILT	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC077_0.8-1	FC077	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC077_1-1.2	FC077	1 - 1.2	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC077_2-2.2	FC077	2 - 2.2	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC080_0.2-0.3	FC080	0.2 - 0.3	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC080_0.8-1	FC080	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC080_0.8-1	FC080	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_0.1	MW525	0.1 - 0.2	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_0.5	MW525	0.5 - 0.6	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_1.0	MW525	1 - 1.1	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_1.0	MW525	1 - 1.1	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_3.5	MW525	3.5 - 3.6	Site 8D	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stage 5																					
BH4_0.2	BH4	0.2	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R12_0.4-0.5	R12	0.4 - 0.5	Internal Road	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R12_1.9-2	R12	1.9 - 2	Internal Road	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R14_0.9-1	R14	0.9 - 1	Internal Road	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R14_1.9-2	R14	1.9 - 2	Internal Road	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W1-0.5-0.6	S5-W1	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics and concrete	JBS&G 2023c	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
S5-W1-0.5-0.6	S5-W1	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W1-2.0-2.1	S5-W1	2 - 2.1	Internal Road	Fill-Gravelly clay, dark brown inc. sandstone gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	Chlorinated Benzenes						Trihalomethanes				Acid Sulphate Soils										
	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	KCl Extractable Sulfur	Liming Rate	Net Acidity (acidity units)	Net Acidity (sulfur units)	Peroxide Oxidisable Sulfur	pH (KCl)	Sulfur in Peroxide	Titratable Actual Acidity	Titratable Peroxide Acidity	Titratable Sulfidic Acidity	pH (Ox)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%	kg CaCO3/	mol H+/t	%S	%	pH Unit	%	mol H+/t	mole H+/t	mole H+/t	pH Unit
EQL	1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.005	1	10	0.02	0.02	0.1	0.005	2	2	2	0.1
NEPM 2013 Table 1A(1) HILs Res B Soil																					
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																					
>=1m, <2m																					
>=2m, <4m																					
>=4m																					
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																					
>=1m, <2m																					
>=2m, <4m																					
>=4m																					
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																					
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																					
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																					
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																					
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																					
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																					
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																					
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																					
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																					
Stage 5																					
S5-W3-0.3-0.4	S5-W3	0.3 - 0.4	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
S5-W3-0.5-0.6	S5-W3	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W3 0.3-0.4	S5-W3	0.3 - 0.4	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH3 2.0-2.2	BH3	2 - 2.2	Site 8A	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH2 1.3-1.5	BH2	1.3 - 1.5	Site 8A	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.2	BH5	0.2	Site 8A	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_2.0	BH5	2	Site 8A	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-3-0.3-0.4	S5-3	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
S5-3-0.3-0.4	S5-3	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
lQC2	S5-3-0.3-0.4	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
lQC2	S5-3-0.3-0.4	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-3-0.5-0.6	S5-3	0.5 - 0.6	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-3-1.0-1.1	S5-3	1 - 1.1	Site 8A	Fill-Silty gravelly sand, brown inc. trace gravels and ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-4-1.0-1.1	S5-4	1 - 1.1	Site 8A	Fill-Silty gravelly sand, brown inc. trace gravels and ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-5-0.0-0.1	S5-5	0 - 0.1	Site 8A	Fill-Gravelly sand, brown inc. roadbase gravels	JBS&G 2023c	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
S5-5-0.3-0.4	S5-5	0.3 - 0.4	Site 8A	Fill-Gravelly sand, brown inc. roadbase gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-5-0.5-0.6	S5-5	0.5 - 0.6	Site 8A	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W2-0.5-0.6	S5-W2	0.5 - 0.6	Site 8A	Fill-Gravelly sand, dark brown inc. organics and concrete	JBS&G 2023c	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
lQA1	S5-W2-0.5-0.6	0.5 - 0.6	Site 8A	-	JBS&G 2023c	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
lQC1	S5-W2-0.5-0.6	0.5 - 0.6	Site 8A	-	JBS&G 2023c	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-
FC075 0.2-0.3	FC075	0.2 - 0.3	Site 8A	Fill - SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC075 0.6-0.8	FC075	0.6 - 0.8	Site 8A	Fill - Brick	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC075 0.8-1.0	FC075	0.8 - 1	Site 8A	SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC075 1.0-1.2	FC075	1 - 1.2	Site 8A	SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	Chlorinated Benzenes						Trihalomethanes				Acid Sulphate Soils										
	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	KCl Extractable Sulfur	Liming Rate	Net Acidity (acidity units)	Net Acidity (sulfur units)	Peroxide Oxidisable Sulfur	pH (KCl)	Sulfur in Peroxide	Titratable Actual Acidity	Titratable Peroxide Acidity	Titratable Sulfidic Acidity	pH (Ox)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%	kg CaCO3/	mol H+/t	%S	%	pH Unit	%	mol H+/t	mole H+/t	mole H+/t	pH Unit
EQL	1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.005	1	10	0.02	0.02	0.1	0.005	2	2	2	0.1
NEPM 2013 Table 1A(1) HILs Res B Soil																					
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																					
>=1m, <2m																					
>=2m, <4m																					
>=4m																					
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																					
>=1m, <2m																					
>=2m, <4m																					
>=4m																					
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																					
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																					
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																					
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																					
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																					
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																					
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																					
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																					
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																					
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																				
BH13_0.2	BH13	0.2	Site 8B	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6_0.2	BH6	0.2	Site 8B	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stage 5																									
BH7_0.2	BH7	0.2	Site 8B	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-1-0.5-0.6	S5-1	0.5 - 0.6	Site 8B	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-1-0.5-0.6	S5-1	0.5 - 0.6	Site 8B	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-1-2.0-2.1	S5-1	2 - 2.1	Site 8B	Nat-Silty clay, yellow, grey	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-2-0.3-0.4	S5-2	0.3 - 0.4	Site 8B	Fill-Gravelly sand, brown inc. igneous roadbase gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-2-0.5-0.6	S5-2	0.5 - 0.6	Site 8B	Fill-Gravelly sand, brown inc. igneous roadbase gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC073 0.2-0.3	FC073	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC073 1-1.2	FC073	1 - 1.2	Site 8B	Fill - SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC073 1.5-1.7	FC073	1.5 - 1.7	Site 8B	CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC074 0.2-0.3	FC074	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	-	-	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-
QC04	FC074_0.2-0.3	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	-	-	<0.05	<0.05	<0.05	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-
QC04-A	FC074_0.2-0.3	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	<1	<1	<1	<1	<1	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-
FC074 0.8-1	FC074	0.8 - 1	Site 8B	SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC074 3.0-3.2	FC074	3 - 3.2	Site 8B	CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

							Acid Sulphate Soils - Other								Organic Sulfur Compounds	Ionic Balance									
							Acid Reacted Calcium	Acid Reacted Magnesium	Acidity - Acid Reacted Calcium	Acidity - Acid Reacted Magnesium	Acidity - Peroxide Oxidisable Sulfur	ANC Fineness Factor	Calcium in Peroxide	KCl Extractable Calcium	KCl Extractable Magnesium	Magnesium in Peroxide	sulfidic - Acid Reacted Magnesium	sulfidic - Titratable Actual Acidity	sulfidic - Titratable Peroxide Acidity	Carbon disulfide	CEC	Conductivity (1:5 aqueous extract)	pH of Leaching Fluid	pH of Leaching Fluid (filtered)	pH (after HCL)	pH (Final)	pH (Final) (filtered)	pH (Initial)	pH (Initial) (filtered)	pH (aqueous extract)
							%	% Mg	mol H+/t	mol H+/t	mol H+/t	FACTOR	%	%	%	%	%S	%S	%S	mg/kg	MEQ/100	US/CM	pH Units	pH Units	pH Units	pH Units	pH Units	pH Units	pH Units	pH Units
EQL							0.005	0.005	0.005	0.005	10		0.005	0.005	0.005	0.005	0.005	0.003	0.02	0.5	0.5	10	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NEPM 2013 Table 1A(1) HILs Res B Soil																														
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																														
>=1m, <2m																														
>=2m, <4m																														
>=4m																														
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																														
>=1m, <2m																														
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NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																														
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																														
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																														
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																														
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																														
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																														
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																														
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																														
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																														
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																									
Stage 4																														
AS04_0.2-0.2	AS04	0.2 - 0.2	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS04_0.6-0.6	AS04	0.6 - 0.6	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS04_2-2	AS04	2 - 2	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS04_2.8-2.8	AS04	1 - 1	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09_0.2-0.5	BH09	0.2 - 0.5	Internal Road	unkown	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09_3.0-3.5	BH09	3 - 3.5	Internal Road	unkown	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10_1-1	BH10	1 - 1	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10_2-2	BH10	2 - 2	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11_1-1	BH11	1 - 1	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH514_0.1	BH514	0.1 - 0.2	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	6.6	-	6.3	-	-
BH514_1.0	BH514	1 - 1.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	6.7	-	6.4	-	-
BH514_2.0	BH514	2 - 2.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	6.8	-	6.3	-	-
BH514_3.0	BH514	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	6.6	-	6.3	-	-
BH514_4.0	BH514	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	7	-	6.4	-	-
BH514_5.0	BH514	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	5.4	-	6.2	-	-
BH514_5.5	BH514	5.5 - 5.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	5.7	-	6.2	-	-
BH515_0.5	BH515	0.5 - 0.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	6.3	-	6.2	-	-
BH515_1.5	BH515	1.5 - 1.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	7.1	-	6.4	-	-
BH515_2.5	BH515	2.5 - 2.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	6.8	-	6.3	-	-
BH515_3.5	BH515	3.5 - 3.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	7	-	6.4	-	-
BH515_4.5	BH515	4.5 - 4.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	7.1	-	6.3	-	-
BH515_5.5	BH515	5.5 - 5.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	7	-	6.4	-	-
BH516_0.5	BH516	0.5 - 0.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	7	-	6.4	-	-
BH516_1.5	BH516	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	7.8	-	6.5	-	-
BH516_2.0	BH516	2 - 2.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-	6.6	-	6.4	-	-
BH516_3.0	BH516	3 - 3.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	6.8	-	6.3	-	-
BH516_5.0	BH516	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	6.2	-	6.2	-	-
BH516_6.0	BH516	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	6.2	-	6.3	-	-
BH517_0.5	BH517	0.5 - 0.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	6.3	-	6.3	-	-
BH517_1.5	BH517	1.5 - 1.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-	6.2	-	6.3	-	-
BH517_2.5	BH517	2.5 - 2.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	6.9	-	6.3	-	-
BH517_3.5	BH517	3.5 - 3.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	6.5	-	6.2	-	-
BH517_4.5	BH517	4.5 - 4.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	5.6	-	6.2	-	-
BH517_5.5	BH517	5.5 - 5.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	6.4	-	6.2	-	-
BH517_6.5	BH517	6.5 - 6.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	6.7	-	6.4	-	-
BH520_1.0	BH520	1 - 1.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	6.9	-	6.6	-	-
BH520_2.0	BH520	2 - 2.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	7	-	6.9	-	-
BH520_3.0	BH520	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	6.9	-	7.1	-	-
BH520_3.0	BH520	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	7	-	6.9	-	-
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_5.0	BH520	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_5.0	BH520	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	7	-	6.8	-	-
BH520_6.0	BH520	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_6.0	BH520	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	7	-	6.8	-	-
BH9_0.2-0.2	BH9	0.5 - 0.5	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH9_3.0-3.5	BH9	3 - 3.5	Internal Road	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH9_0.2-0.5	BH9	0.2 - 0.5	Internal Road	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_0.2-0.3	FC099	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	Acid Sulphate Soils - Other													Organic Sulfur Compounds	Ionic Balance									
	Acid Reacted Calcium	Acid Reacted Magnesium	Acidity - Acid Reacted Calcium	Acidity - Acid Reacted Magnesium	Acidity - Peroxide Oxidisable Sulfur	ANC Fineness Factor	Calcium in Peroxide	KCl Extractable Calcium	KCl Extractable Magnesium	Magnesium in Peroxide	sulfidic - Acid Reacted Magnesium	sulfidic - Titratable Actual Acidity	sulfidic - Titratable Peroxide Acidity	Carbon disulfide	CEC	Conductivity (1:5 aqueous extract)	pH of Leaching Fluid	pH of Leaching Fluid (filtered)	pH (after HCL)	pH (Final)	pH (Final) (filtered)	pH (Initial)	pH (Initial) (filtered)	pH (aqueous extract)
	%	% Mg	mol H+/t	mol H+/t	mol H+/t	FACTOR	%	%	%	%	%S	%S	%S	mg/kg	MEQ/1000	US/CM	pH Units	pH Units	pH Units	pH Units	pH Units	pH Units	pH Units	pH Units
EQL	0.005	0.005	0.005	0.005	10		0.005	0.005	0.005	0.005	0.005	0.003	0.02	0.5	0.5	10	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NEPM 2013 Table 1A(1) HILs Res B Soil																								
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																								
>=1m, <2m																								
>=2m, <4m																								
>=4m																								
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																								
>=1m, <2m																								
>=2m, <4m																								
>=4m																								
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																								
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																								
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																								
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																								
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																								
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																								
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																								
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																								
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																								

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference																					
Stage 4																										
FC099_0.2-0.3	FC099	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	5.1	-	9	-	-
FC099_0.5-0.7	FC099	0.5 - 0.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_1.5-1.7	FC099	1.5 - 1.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_4.5-4.7	FC099	4.5 - 4.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_4.5-4.7	FC099	4.5 - 4.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	5.2	-	8.5	-	-
FC100_0.2-0.3	FC100	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_0.2-0.3	FC100	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	5.8	-	8.5	-	-
FC100_0.4-0.6	FC100	0.4 - 0.6	Internal Road	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_1.7-1.9	FC100	1.7 - 1.9	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_4.3-4.5	FC100	4.3 - 4.5	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_4.3-4.5	FC100	4.3 - 4.5	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	5	-	9.1	-	-
FC101_0.5-0.8	FC101	0.5 - 0.8	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC101_3-3.2	FC101	3 - 3.2	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	5	-	8.7	-	-
FC101_5.0-5.2	FC101	5 - 5.2	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_10.5	MW523	10.5 - 10.6	Internal Road	SHALE	JBS&G 2022	<0.005	<0.005	<0.005	<0.005	<10	1.5	0.03	0.03	0.03	0.03	<0.005	0.03	<0.02	-	-	-	-	-	-	-	-	-	-
BH523_12.5	MW523	12.5 - 12.6	Internal Road	SHALE	JBS&G 2022	<0.005	<0.005	<0.005	<0.005	<10	1.5	<0.005	<0.005	0.02	0.02	<0.005	0.02	<0.02	-	-	-	-	-	-	-	-	-	-
BH523_0.5	MW523	0.5 - 0.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_1.0	MW523	1 - 1.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_1.5	MW523	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	4.6	-	8.9	-	-
BH523_8.5	MW523	8.5 - 8.6	Internal Road	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_13.0	MW523	13 - 13.1	Internal Road	CLAY (CL)	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_1.5	MW523	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_2.5	MW523	2.5 - 2.6	Internal Road	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R35_0.9-1.0	R35	0.9 - 1	Internal Road	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R35_2.9-3	R35	2.9 - 3	Internal Road	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_0.1-0.2	BH8	0.1 - 0.2	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_6-6.5	BH8	6 - 6.5	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12_0.2-0.2	BH12	0.2 - 0.2	Site 19A	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_0.5	BH513	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_0.5	BH513	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6.0	-	6.5	6.5	6.3	6.3	-
BH513_1.5	BH513	1.5 - 1.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_1.5	BH513	1.5 - 1.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6.0	-	6.3	6.3	6.1	6.1	-
BH513_3.0	BH513	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.0	BH513	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6.0	-	6.5	6.5	6.2	6.2	-
BH513_3.5	BH513	3.5 - 3.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.5	BH513	3.5 - 3.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	6.6	-	6.3	-	-
BH513_4.5	BH513	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_4.5	BH513	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	6.7	-	6.3	-	-
BH513_6.0	BH513	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_6.0	BH513	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	6.5	-	6.3	-	-
BH518_0.1	BH518	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_0.1	BH518	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	6.6	-	6.4	-	-
BH518_1.0	BH518	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_1.0	BH518	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	6.4	-	6.3	-	-
BH518_2.0	BH518	2 - 2.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_2.0	BH518	2 - 2.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	6.5	-	6.3	-	-
BH518_3.0	BH518	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_3.0	BH518	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	6.6	-	6.4	-	-
BH518_4.5	BH518	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_4.5	BH518	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	6.6	-	6.3	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

							Acid Sulphate Soils - Other									Organic Sulfur Compounds	Ionic Balance									
							Acid Reacted Calcium	Acid Reacted Magnesium	Acidity - Acid Reacted Calcium	Acidity - Acid Reacted Magnesium	Acidity - Peroxide Oxidisable Sulfur	ANC Fineness Factor	Calcium in Peroxide	KCl Extractable Calcium	KCl Extractable Magnesium	Magnesium in Peroxide	sulfidic - Acid Reacted Magnesium	sulfidic - Titratable Actual Acidity	sulfidic - Titratable Peroxide Acidity	Carbon disulfide	CEC	Conductivity (1:5 aqueous extract)	pH of Leaching Fluid	pH of Leaching Fluid (filtered)	pH (after HCL)	pH (Final)	pH (Final) (filtered)	pH (Initial)	pH (Initial) (filtered)	pH (aqueous extract)
							%	% Mg	mol H+/t	mol H+/t	mol H+/t	FACTOR	%	%	%	%	%S	%S	%S	mg/kg	MEQ/1000	US/CM	pH Units	pH Units	pH Units	pH Units	pH Units	pH Units	pH Units	pH Units
EQL							0.005	0.005	0.005	0.005	10		0.005	0.005	0.005	0.005	0.005	0.003	0.02	0.5	0.5	10	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NEPM 2013 Table 1A(1) HILs Res B Soil																														
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																														
>=1m, <2m																														
>=2m, <4m																														
>=4m																														
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																														
>=1m, <2m																														
>=2m, <4m																														
>=4m																														
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																														
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																														
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																														
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																														
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																														
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																														
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																														
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																														
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																														
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																									
Stage 4																														
BH518_6.0	BH518	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	6.6	-	6.3	-	-
BH6_1-1.5	BH6	1 - 1.5	Site 19A	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_0.1-0.1	BH8	0.1 - 0.1	Site 19A	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_0.5-0.5	BH8	0.2 - 0.4	Site 19A	Fill - Gravel	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_2.6-2.9	BH8	2.6 - 2.9	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP03_2.6-2.9	BH8_2.6-2.9	2.6 - 2.9	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP8_0.1-0.1	BHP8	0.1 - 0.1	Site 19A	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP8_0.5-0.6	BHP8	0.5 - 0.6	Site 19A	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP8_2-2.1	BHP8	2 - 2.1	Site 19A	CLAY (CL)	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC084_0.1-0.2	FC084	0.1 - 0.2	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC084_4.5-4.7	FC084	4.5 - 4.7	Site 19A	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC085_0.2-0.3	FC085	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC085_0.2-0.3	FC085	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	5.2	-	9	-	-
FC087_0.2-0.3	FC087	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC087_0.2-0.3	FC087	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	5.7	-	8.4	-	-
FC087_2.7-2.9	FC087	2.7 - 2.9	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC087_4.5-4.7	FC087	4.5 - 4.7	Site 19A	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC088_0.8-1	FC088	0.8 - 1	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC088_2.2-2.4	FC088	2.2 - 2.4	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.1	MW521	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	5.0	-	9.1	-	-
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_1.0	MW521	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_2.0	MW521	2 - 2.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	5.1	-	8.8	-	-
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220215-PG2	BH521_0.5	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220215-PG2	BH521_0.5	0.5 - 0.5	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_2.0	MW521	2 - 2.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_3.5	MW521	3.5 - 3.6	Site 19A	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_0.5	MW522	0.5 - 0.6	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_0.12	MW522	0.12 - 0.22	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9	4.8	-	8.7	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9	4.3	-	8.2	-	-
QA20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220215-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_5.0	MW522	5 - 5.1	Site 19A	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.5	MW522	1.5 - 1.6	Site 19A	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_1.0	BH519	1 - 1.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_1.0	BH519	1 - 1.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	6.7	-	6.3	-	-
BH519_2.0	BH519	2 - 2.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_2.0	BH519	2 - 2.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	6.8	-	6.5	-	-
BH519_3.0	BH519	3 - 3.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_3.0	BH519	3 - 3.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	6.8	-	6.5	-	-
BH519_4.0	BH519	4 - 4.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_4.0	BH519	4 - 4.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	6.8	-	6.7	-	-
BH519_4.0	BH519	4 - 4.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	Acid Sulphate Soils - Other													Organic Sulfur Compounds	Ionic Balance									
	Acid Reacted Calcium	Acid Reacted Magnesium	Acidity - Acid Reacted Calcium	Acidity - Acid Reacted Magnesium	Acidity - Peroxide Oxidisable Sulfur	ANC Fineness Factor	Calcium in Peroxide	KCl Extractable Calcium	KCl Extractable Magnesium	Magnesium in Peroxide	sulfidic - Acid Reacted Magnesium	sulfidic - Titratable Actual Acidity	sulfidic - Titratable Peroxide Acidity	Carbon disulfide	CEC	Conductivity (1:5 aqueous extract)	pH of Leaching Fluid	pH of Leaching Fluid (filtered)	pH (after HCL)	pH (Final)	pH (Final) (filtered)	pH (Initial)	pH (Initial) (filtered)	pH (aqueous extract)
	%	% Mg	mol H+/t	mol H+/t	mol H+/t	FACTOR	%	%	%	%	%S	%S	%S	mg/kg	MEQ/1000	US/CM	pH Units	pH Units	pH Units	pH Units	pH Units	pH Units	pH Units	pH Units
EQL	0.005	0.005	0.005	0.005	10		0.005	0.005	0.005	0.005	0.005	0.003	0.02	0.5	0.5	10	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NEPM 2013 Table 1A(1) HILs Res B Soil																								
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																								
>=1m, <2m																								
>=2m, <4m																								
>=4m																								
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																								
>=1m, <2m																								
>=2m, <4m																								
>=4m																								
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																								
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																								
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																								
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																								
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																								
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																								
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																								
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																								
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																								

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference																					
Stage 4																										
BH519_5.0	BH519	5 - 5.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_5.0	BH519	5 - 5.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	6.8	-	6.8	-	-
BH519_6.0	BH519	6 - 6.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_6.0	BH519	6 - 6.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	6.9	-	6.7	-	-
BH7_1-1.1	BH7	1 - 1.1	Site 19B	unkown	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_2-2.1	BH7	2 - 2.1	Site 19B	unkown	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_7-7.1	BH7	7 - 7.1	Site 19B	unkown	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP7_1-1.1	BHP7	1 - 1.1	Site 19B	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP7_2-2.1	BHP7	2 - 2.1	Site 19B	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP7_7-7.1	BHP7	7 - 7.1	Site 19B	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC083_0.5-0.7	FC083	0.5 - 0.7	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC083_0.5-0.7	FC083	0.5 - 0.7	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	5.6	-	9.1	-	-
FC083_2-2.2	FC083	2 - 2.2	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC083_2-2.2	FC083	2 - 2.2	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9	5.2	-	6.6	-	-
FC086_0.9-1.1	FC086	0.9 - 1.1	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC086_1.8-2	FC086	1.8 - 2	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_0.2-0.2	AS03	0.2 - 0.2	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_0.4-0.4	AS03	0.4 - 0.4	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_1-1	AS03	1 - 1	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_2-2	AS03	2 - 2	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15_0.1-0.3	BH15	0.1 - 0.3	Site 8C	Fill - SILT	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15_0.2-0.2	BH15	0.2 - 0.2	Site 8C	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16_0.2-0.2	BH16	0.2 - 0.2	Site 8C	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH3_0.2-0.4	BH3	0.2 - 0.4	Site 8C	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH3_0.7-0.9	BH3	0.7 - 0.9	Site 8C	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH528_0.5	BH528	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH528_0.15	BH528	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220216-PG3	BH528_0.15	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220216-PG3	BH528_0.15	0.15 - 0.25	Site 8C	Fill_SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH529_0.5	BH529	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH529_0.12	BH529	0.12 - 0.22	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220216-PG4	BH529_0.12	0.12 - 0.22	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220216-PG4	BH529_0.12	0.12 - 0.22	Site 8C	Fill_SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP9_0.5-0.6	BHP9	0.5 - 0.6	Site 8C	Fill_CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP9_0.9-1	BHP9	0.9 - 1	Site 8C	Fill_CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC078_0.1-0.2	FC078	0.1 - 0.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC078_2-2.2	FC078	2 - 2.2	Site 8C	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC078_4-4.2	FC078	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-
QC16	FC078_4-4.2	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-
QC16-A	FC078_4-4.2	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC079_0.1-0.2	FC079	0.1 - 0.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC079_1.8-2	FC079	1.8 - 2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC081_0.2-0.3	FC081	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC081_0.8-1	FC081	0.8 - 1	Site 8C	CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC082_0.2-0.3	FC082	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC082_0.2-0.3	FC082	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	5.4	-	7.6	-	-
FC082_1.8-2	FC082	1.8 - 2	Site 8C	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC082_2.8-3	FC082	2.8 - 3	Site 8C	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC097_0.2-0.3	FC097	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC097_0.2-0.3	FC097	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	5.3	-	4.6	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

							Acid Sulphate Soils - Other									Organic Sulfur Compounds	Ionic Balance									
							Acid Reacted Calcium	Acid Reacted Magnesium	Acidity - Acid Reacted Calcium	Acidity - Acid Reacted Magnesium	Acidity - Peroxide Oxidisable Sulfur	ANC Fineness Factor	Calcium in Peroxide	KCl Extractable Calcium	KCl Extractable Magnesium	Magnesium in Peroxide	sulfidic - Acid Reacted Magnesium	sulfidic - Titratable Actual Acidity	sulfidic - Titratable Peroxide Acidity	Carbon disulfide	CEC	Conductivity (1:5 aqueous extract)	pH of Leaching Fluid	pH of Leaching Fluid (filtered)	pH (after HCL)	pH (Final)	pH (Final) (filtered)	pH (Initial)	pH (Initial) (filtered)	pH (aqueous extract)
							%	% Mg	mol H+/t	mol H+/t	mol H+/t	FACTOR	%	%	%	%	%S	%S	%S	mg/kg	MEQ/1000	US/CM	pH Units	pH Units	pH Units	pH Units	pH Units	pH Units	pH Units	pH Units
EQL							0.005	0.005	0.005	0.005	10		0.005	0.005	0.005	0.005	0.005	0.003	0.02	0.5	0.5	10	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NEPM 2013 Table 1A(1) HILs Res B Soil																														
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																														
>=1m, <2m																														
>=2m, <4m																														
>=4m																														
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																														
>=1m, <2m																														
>=2m, <4m																														
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NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																														
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NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																														
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																														
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																														
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PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																														
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																														
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																														
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																									
Stage 4																														
FC097_1.3-1.5	FC097	1.3 - 1.5	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC097_2-2.2	FC097	2 - 2.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC097_3-3.2	FC097	3 - 3.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC098_0.2-0.3	FC098	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_6.5	MW524	6.5 - 6.6	Site 8C	SHALE	JBS&G 2022	<0.005	<0.005	<0.005	<0.005	27	1.5	<0.005	<0.005	0.04	0.04	<0.005	0.03	0.09	-	-	-	-	-	-	-	-	-	-	-
BH524_7.0	MW524	7 - 7.1	Site 8C	SHALE	JBS&G 2022	<0.005	<0.005	<0.005	<0.005	24	1.5	<0.005	<0.005	0.04	0.04	<0.005	0.03	0.09	-	-	-	-	-	-	-	-	-	-	-
BH524_7.5	MW524	7.5 - 7.6	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_8.5	MW524	8.5 - 8.6	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_0.1	MW524	0.1 - 0.2	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_0.5	MW524	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH524_1.5	MW524	1.5 - 1.6	Site 8C	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH526_3.5	MW526	3.5 - 3.6	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH526_0.5	MW526	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH526_0.15	MW526	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH526_1.0	MW526	1 - 1.1	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH526_1.5	MW526	1.5 - 1.6	Site 8C	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH527_0.5	MW527	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH527_1.0	MW527	1 - 1.1	Site 8C	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14_0.2-0.2	BH14	0.2 - 0.2	Site 8D	unknown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14_2-2	BH14	2 - 2	Site 8D	unknown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.5-0.7	BH5	0.5 - 0.7	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.6-0.8	BH5	0.6 - 0.8	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.8-0.9	BH5	0.8 - 0.9	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH1 0.5-0.7	BH5	0.5 - 0.7	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP6A_0.5-0.6	BHP6A	0.5 - 0.6	Site 8D	Fill - SILT	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP6A_2-2.1	BHP6A	2 - 2.1	Site 8D	Fill - SILT	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC077_0.8-1	FC077	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC077_1-1.2	FC077	1 - 1.2	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC077_2-2.2	FC077	2 - 2.2	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC080_0.2-0.3	FC080	0.2 - 0.3	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC080_0.8-1	FC080	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC080_0.8-1	FC080	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9	5.6	-	8.4	-	-
BH525_0.1	MW525	0.1 - 0.2	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_0.5	MW525	0.5 - 0.6	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_1.0	MW525	1 - 1.1	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9	4.9	-	7.9	-	-
BH525_1.0	MW525	1 - 1.1	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_3.5	MW525	3.5 - 3.6	Site 8D	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stage 5																														
BH4_0.2	BH4	0.2	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R12_0.4-0.5	R12	0.4 - 0.5	Internal Road	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R12_1.9-2	R12	1.9 - 2	Internal Road	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R14_0.9-1	R14	0.9 - 1	Internal Road	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R14_1.9-2	R14	1.9 - 2	Internal Road	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W1-0.5-0.6	S5-W1	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-
S5-W1-0.5-0.6	S5-W1	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	5.1	-	9.5	-	-
S5-W1-2.0-2.1	S5-W1	2 - 2.1	Internal Road	Fill-Gravelly clay, dark brown inc. sandstone gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	Acid Sulphate Soils - Other													Organic Sulfur Compounds	Ionic Balance									
	Acid Reacted Calcium	Acid Reacted Magnesium	Acidity - Acid Reacted Calcium	Acidity - Acid Reacted Magnesium	Acidity - Peroxide Oxidisable Sulfur	ANC Fineness Factor	Calcium in Peroxide	KCl Extractable Calcium	KCl Extractable Magnesium	Magnesium in Peroxide	sulfidic - Acid Reacted Magnesium	sulfidic - Titratable Actual Acidity	sulfidic - Titratable Peroxide Acidity	Carbon disulfide	CEC	Conductivity (1:5 aqueous extract)	pH of Leaching Fluid	pH of Leaching Fluid (filtered)	pH (after HCL)	pH (Final)	pH (Final) (filtered)	pH (Initial)	pH (Initial) (filtered)	pH (aqueous extract)
	%	% Mg	mol H+/t	mol H+/t	mol H+/t	FACTOR	%	%	%	%	%S	%S	%S	mg/kg	MEQ/1000	US/CM	pH Units	pH Units	pH Units	pH Units	pH Units	pH Units	pH Units	pH Units
EQL	0.005	0.005	0.005	0.005	10		0.005	0.005	0.005	0.005	0.005	0.003	0.02	0.5	0.5	10	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NEPM 2013 Table 1A(1) HILs Res B Soil																								
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																								
>=1m, <2m																								
>=2m, <4m																								
>=4m																								
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																								
>=1m, <2m																								
>=2m, <4m																								
>=4m																								
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																								
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																								
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																								
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																								
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																								
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																								
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																								
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																								
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																								

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference																					
Stage 5																										
S5-W3-0.3-0.4	S5-W3	0.3 - 0.4	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-
S5-W3-0.5-0.6	S5-W3	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W3 0.3-0.4	S5-W3	0.3 - 0.4	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1	5.2	-	9.5	-	-
BH3 2.0-2.2	BH3	2 - 2.2	Site 8A	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH2 1.3-1.5	BH2	1.3 - 1.5	Site 8A	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.2	BH5	0.2	Site 8A	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_2.0	BH5	2	Site 8A	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-3-0.3-0.4	S5-3	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-
S5-3-0.3-0.4	S5-3	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9	5.2	-	10	-	-
IQC2	S5-3-0.3-0.4	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IQC2	S5-3-0.3-0.4	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-3-0.5-0.6	S5-3	0.5 - 0.6	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-3-1.0-1.1	S5-3	1 - 1.1	Site 8A	Fill-Silty gravelly sand, brown inc. trace gravels and ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-4-1.0-1.1	S5-4	1 - 1.1	Site 8A	Fill-Silty gravelly sand, brown inc. trace gravels and ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43	220	-	-	-	-	-	-	-	11
S5-5-0.0-0.1	S5-5	0 - 0.1	Site 8A	Fill-Gravelly sand, brown inc. roadbase gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-
S5-5-0.3-0.4	S5-5	0.3 - 0.4	Site 8A	Fill-Gravelly sand, brown inc. roadbase gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-5-0.5-0.6	S5-5	0.5 - 0.6	Site 8A	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W2-0.5-0.6	S5-W2	0.5 - 0.6	Site 8A	Fill-Gravelly sand, dark brown inc. organics and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-
IQA1	S5-W2-0.5-0.6	0.5 - 0.6	Site 8A	-	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-
IQC1	S5-W2-0.5-0.6	0.5 - 0.6	Site 8A	-	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC075 0.2-0.3	FC075	0.2 - 0.3	Site 8A	Fill - SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC075 0.6-0.8	FC075	0.6 - 0.8	Site 8A	Fill - Brick	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC075 0.8-1.0	FC075	0.8 - 1	Site 8A	SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC075 1.0-1.2	FC075	1 - 1.2	Site 8A	SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

							Acid Sulphate Soils - Other								Organic Sulfur Compounds	Ionic Balance									
							Acid Reacted Calcium	Acid Reacted Magnesium	Acidity - Acid Reacted Calcium	Acidity - Acid Reacted Magnesium	Acidity - Peroxide Oxidisable Sulfur	ANC Fineness Factor	Calcium in Peroxide	KCl Extractable Calcium	KCl Extractable Magnesium	Magnesium in Peroxide	sulfidic - Acid Reacted Magnesium	sulfidic - Titratable Actual Acidity	sulfidic - Titratable Peroxide Acidity	Carbon disulfide	CEC	Conductivity (1:5 aqueous extract)	pH of Leaching Fluid	pH of Leaching Fluid (filtered)	pH (after HCL)	pH (Final)	pH (Final) (filtered)	pH (Initial)	pH (Initial) (filtered)	pH (aqueous extract)
							%	% Mg	mol H+/t	mol H+/t	mol H+/t	FACTOR	%	%	%	%	%S	%S	%S	mg/kg	MEQ/1000	US/CM	pH Units	pH Units	pH Units	pH Units	pH Units	pH Units	pH Units	pH Units
EQL							0.005	0.005	0.005	0.005	10		0.005	0.005	0.005	0.005	0.005	0.003	0.02	0.5	0.5	10	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NEPM 2013 Table 1A(1) HILs Res B Soil																														
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																														
>=1m, <2m																														
>=2m, <4m																														
>=4m																														
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																														
>=1m, <2m																														
>=2m, <4m																														
>=4m																														
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																														
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																														
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																														
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																														
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																														
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																														
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																														
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																														
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																														
Field ID	**Location Code**	**Depth**	**Site Location**	**Matrix Description**	**Reference**																									
BH13_0.2	BH13	0.2	Site 8B	unkown	EMS 2002		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6_0.2	BH6	0.2	Site 8B	unkown	EMS 2002		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stage 5																														
BH7_0.2	BH7	0.2	Site 8B	unkown	EMS 2002		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-1-0.5-0.6	S5-1	0.5 - 0.6	Site 8B	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c		-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	39	-	-	-	-	-	-	-	8.0
S5-1-0.5-0.6	S5-1	0.5 - 0.6	Site 8B	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7	5.1	-	8.4	-	-
S5-1-2.0-2.1	S5-1	2 - 2.1	Site 8B	Nat-Silty clay, yellow, grey	JBS&G 2023c		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-2-0.3-0.4	S5-2	0.3 - 0.4	Site 8B	Fill-Gravelly sand, brown inc. igneous roadbase gravels	JBS&G 2023c		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-2-0.5-0.6	S5-2	0.5 - 0.6	Site 8B	Fill-Gravelly sand, brown inc. igneous roadbase gravels	JBS&G 2023c		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC073 0.2-0.3	FC073	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC073 1-1.2	FC073	1 - 1.2	Site 8B	Fill - SAND	JBS&G 2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	5.2	-	8.4	-	-
FC073 1.5-1.7	FC073	1.5 - 1.7	Site 8B	CLAY	JBS&G 2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC074 0.2-0.3	FC074	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014		-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	1.7	5.2	-	8.5	-	-
QC04	FC074_0.2-0.3	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014		-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-
QC04-A	FC074_0.2-0.3	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC074 0.8-1	FC074	0.8 - 1	Site 8B	SAND	JBS&G 2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC074 3.0-3.2	FC074	3 - 3.2	Site 8B	CLAY	JBS&G 2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	SPOCAS			Inorganics			Particle Size			Chlorinated Hydrocarbons	Other									
	HCl Extractable Sulfur Correction Factor	sulfidic - Acid Reacted Calcium	sulfidic - Titratable Sulfidic Acidity	Electrical Conductivity (Non Compensated)	Moisture	pH 1:5 soil:water1:5 soil:water	% Clay*	<2mm Fraction	>2mm Fraction	Hexachlorobutadiene	Moisture Content (dried @ 103°C)	Analysed Material	Asphalt	Extraneous Material	Low Molecular Weight PAHss	Scheduled chemicals	Solids Leachate pH (post rolling)	Total DDT	Total Organic Carbon_
	FACTOR	%S	%S	dS/cm	%	ph	%	%	%	mg/kg	%	%	%	%	mg/kg	mg/L	mg/kg	pH Units	mg/kg	mg/kg
EQL	1	0.005	0.02				1	0.005	0.005	1	1	0.1		0.1				0.1		100
NEPM 2013 Table 1A(1) HILs Res B Soil																				
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																				
>=1m, <2m																				
>=2m, <4m																				
>=4m																				
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																				
>=1m, <2m																				
>=2m, <4m																				
>=4m																				
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																				
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																				
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																				
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																				
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																				
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																				
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																				

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference																	
Stage 4																						
AS04_0.2-0.2	AS04	0.2 - 0.2	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS04_0.6-0.6	AS04	0.6 - 0.6	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.78	-	-	-
AS04_2-2	AS04	2 - 2	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-	-
AS04_2.8-2.8	AS04	1 - 1	Internal Road	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09_0.2-0.5	BH09	0.2 - 0.5	Internal Road	unkown	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09_3.0-3.5	BH09	3 - 3.5	Internal Road	unkown	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10_1-1	BH10	1 - 1	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8	-	0	-
BH10_2-2	BH10	2 - 2	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11_1-1	BH11	1 - 1	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	9.7	-	0	-
BH514_0.1	BH514	0.1 - 0.2	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-	-	-
BH514_1.0	BH514	1 - 1.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-	-	-
BH514_2.0	BH514	2 - 2.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	14	-	-	-	-	-	-
BH514_3.0	BH514	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	17	-	-	-	-	-	-
BH514_4.0	BH514	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-
BH514_5.0	BH514	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	19	-	-	-	-	-	-
BH514_5.5	BH514	5.5 - 5.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	18	-	-	-	-	-	-
BH515_0.5	BH515	0.5 - 0.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-
BH515_1.5	BH515	1.5 - 1.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	17	-	-	-	-	-	-
BH515_2.5	BH515	2.5 - 2.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	20	-	-	-	-	-	-
BH515_3.5	BH515	3.5 - 3.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	14	-	-	-	-	-	-
BH515_4.5	BH515	4.5 - 4.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-
BH515_5.5	BH515	5.5 - 5.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-	-	-
BH516_0.5	BH516	0.5 - 0.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	4.9	-	-	-	-	-	-
BH516_1.5	BH516	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	19	-	-	-	-	-	-
BH516_2.0	BH516	2 - 2.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	21	-	-	-	-	-	-
BH516_3.0	BH516	3 - 3.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-
BH516_5.0	BH516	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	18	-	-	-	-	-	-
BH516_6.0	BH516	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	22	-	-	-	-	-	-
BH517_0.5	BH517	0.5 - 0.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	22	-	-	-	-	-	-
BH517_1.5	BH517	1.5 - 1.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	26	-	-	-	-	-	-
BH517_2.5	BH517	2.5 - 2.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	24	-	-	-	-	-	-
BH517_3.5	BH517	3.5 - 3.6	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	23	-	-	-	-	-	-
BH517_4.5	BH517	4.5 - 4.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	23	-	-	-	-	-	-
BH517_5.5	BH517	5.5 - 5.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	21	-	-	-	-	-	-
BH517_6.5	BH517	6.5 - 6.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	22	-	-	-	-	-	-
BH520_1.0	BH520	1 - 1.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	7.5	-	-	-	-	-	-
BH520_2.0	BH520	2 - 2.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	7.8	-	-	-	-	-	-
BH520_3.0	BH520	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-
BH520_3.0	BH520	3 - 3.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	16	-	-	-	-	-	-
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_4.0	BH520	4 - 4.1	Internal Road	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_5.0	BH520	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	18	-	-	-	-	-	-
BH520_5.0	BH520	5 - 5.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH520_6.0	BH520	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	20	-	-	-	-	-	-
BH520_6.0	BH520	6 - 6.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH9_0.2-0.2	BH9	0.5 - 0.5	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	<1.53	-	0	-
BH9_3.0-3.5	BH9	3 - 3.5	Internal Road	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	23.3	-	-	-
BH9_0.2-0.5	BH9	0.2 - 0.5	Internal Road	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	9.3	-	-	-
FC099_0.2-0.3	FC099	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	8.75	-	0	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	SPOCAS			Inorganics			Particle Size			Chlorinated Hydrocarbons	Other									
	HCl Extractable Sulfur Correction Factor	sulfidic - Acid Reacted Calcium	sulfidic - Titratable Sulfidic Acidity	Electrical Conductivity (Non Compensated)	Moisture	pH 1:5 soil:water1:5 soil:water	% Clay*	<2mm Fraction	>2mm Fraction	Hexachlorobutadiene	Moisture Content (dried @ 103°C)	Analysed Material	Asphalt	Extraneous Material	Low Molecular Weight PAHss	Scheduled chemicals	Solids Leachate pH (post rolling)	Total DDT	Total Organic Carbon_
	FACTOR	%S	%S	dS/cm	%	ph	%	%	%	mg/kg	%	%	%	%	mg/kg	mg/L	mg/kg	pH Units	mg/kg	mg/kg
EQL	1	0.005	0.02				1	0.005	0.005	1	1	0.1		0.1				0.1		100
NEPM 2013 Table 1A(1) HILs Res B Soil																				
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																				
>=1m, <2m																				
>=2m, <4m																				
>=4m																				
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																				
>=1m, <2m																				
>=2m, <4m																				
>=4m																				
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																				
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																				
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																				
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																				
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																				
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																				
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																				
Stage 4																				
FC099_0.2-0.3	FC099	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	13	-	-	-	-	-	-	-	-	-	-	-	-	-
FC099_0.5-0.7	FC099	0.5 - 0.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	<3.75	-	-	-	-	-
FC099_1.5-1.7	FC099	1.5 - 1.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	<5.25	-	0	-	<0.05	-
FC099_4.5-4.7	FC099	4.5 - 4.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	9.9	-	-	-	-	-
FC099_4.5-4.7	FC099	4.5 - 4.7	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	19	-	-	-	-	-	-	-	-	-	0.000113	-	-	-	-
FC100_0.2-0.3	FC100	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	<5.25	-	0.53	-	0.06	-
FC100_0.2-0.3	FC100	0.2 - 0.3	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	8.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC100_0.4-0.6	FC100	0.4 - 0.6	Internal Road	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	<3.75	-	-	-	-	-
FC100_1.7-1.9	FC100	1.7 - 1.9	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	<3.75	-	-	-	-	-
FC100_4.3-4.5	FC100	4.3 - 4.5	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	<3.75	-	-	-	-	-
FC100_4.3-4.5	FC100	4.3 - 4.5	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC101_0.5-0.8	FC101	0.5 - 0.8	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	8.2	-	0	-	<0.05	-
FC101_3-3.2	FC101	3 - 3.2	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC101_5.0-5.2	FC101	5 - 5.2	Internal Road	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	<5.25	-	0	-	<0.05	-
BH523_10.5	MW523	10.5 - 10.6	Internal Road	SHALE	JBS&G 2022	2	<0.005	<0.02	-	-	-	-	120	<0.005	-	21	100	-	<0.1	-	-	-	-	-
BH523_12.5	MW523	12.5 - 12.6	Internal Road	SHALE	JBS&G 2022	2	<0.005	<0.02	-	-	-	-	120	<0.005	-	17	100	-	<0.1	-	-	-	-	-
BH523_0.5	MW523	0.5 - 0.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-	-
BH523_1.0	MW523	1 - 1.1	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-
BH523_1.5	MW523	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH523_8.5	MW523	8.5 - 8.6	Internal Road	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	0	-	-	<100
BH523_13.0	MW523	13 - 13.1	Internal Road	CLAY (CL)	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	0	-	-	<100
BH523_1.5	MW523	1.5 - 1.6	Internal Road	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	17	-	-	-	-	0	-	-	-
BH523_2.5	MW523	2.5 - 2.6	Internal Road	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	16	-	-	-	-	0	-	-	-
R35_0.9-1.0	R35	0.9 - 1	Internal Road	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	0.95	-	-	-	-	-
R35_2.9-3	R35	2.9 - 3	Internal Road	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	<1.6	-	-	-	-	-
BH8_0.1-0.2	BH8	0.1 - 0.2	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_6-6.5	BH8	6 - 6.5	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12_0.2-0.2	BH12	0.2 - 0.2	Site 19A	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	<1.53	-	-	-	-	-
BH513_0.5	BH513	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	8.9	-	-	-	-	-	-	-	-
BH513_0.5	BH513	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_1.5	BH513	1.5 - 1.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-	-	-	-	-
BH513_1.5	BH513	1.5 - 1.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.0	BH513	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-	-	-	-	-
BH513_3.0	BH513	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_3.5	BH513	3.5 - 3.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	14	-	-	-	-	-	-	-	-
BH513_3.5	BH513	3.5 - 3.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_4.5	BH513	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-	-	-	-	-
BH513_4.5	BH513	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH513_6.0	BH513	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-	-	-	-	-
BH513_6.0	BH513	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_0.1	BH518	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	4.5	-	-	-	-	-	-	-	-
BH518_0.1	BH518	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_1.0	BH518	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	14	-	-	-	-	-	-	-	-
BH518_1.0	BH518	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_2.0	BH518	2 - 2.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	18	-	-	-	-	-	-	-	-
BH518_2.0	BH518	2 - 2.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_3.0	BH518	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-
BH518_3.0	BH518	3 - 3.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH518_4.5	BH518	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	16	-	-	-	-	-	-	-	-
BH518_4.5	BH518	4.5 - 4.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	SPOCAS			Inorganics			Particle Size			Chlorinated Hydrocarbons	Other									
	HCl Extractable Sulfur Correction Factor	sulfidic - Acid Reacted Calcium	sulfidic - Titratable Sulfidic Acidity	Electrical Conductivity (Non Compensated)	Moisture	pH 1:5 soil:water1:5 soil:water	% Clay*	<2mm Fraction	>2mm Fraction	Hexachlorobutadiene	Moisture Content (dried @ 103°C)	Analysed Material	Asphalt	Extraneous Material	Low Molecular Weight PAHss		Scheduled chemicals	Solids Leachate pH (post rolling)	Total DDT	Total Organic Carbon_
	FACTOR	%S	%S	dS/cm	%	ph	%	%	%	mg/kg	%	%	%	%	mg/kg	mg/L	mg/kg	pH Units	mg/kg	mg/kg
EQL	1	0.005	0.02				1	0.005	0.005	1	1	0.1		0.1				0.1		100
NEPM 2013 Table 1A(1) HILs Res B Soil																				
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																				
>=1m, <2m																				
>=2m, <4m																				
>=4m																				
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																				
>=1m, <2m																				
>=2m, <4m																				
>=4m																				
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																				
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																				
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																				
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																				
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																				
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																				
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																				

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference																	
Stage 4																						
BH518_6.0	BH518	6 - 6.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	14	-	-	-	-	-	-	-	-
BH6_1-1.5	BH6	1 - 1.5	Site 19A	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1.55	-	0	-	<0.05	-
BH8_0.1-0.1	BH8	0.1 - 0.1	Site 19A	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_0.5-0.5	BH8	0.2 - 0.4	Site 19A	Fill - Gravel	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1.53	-	0.53	-	0.2	-
BH8_2.6-2.9	BH8	2.6 - 2.9	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.75	-	-	-	-	-
DUP03_2.6-2.9	BH8_2.6-2.9	2.6 - 2.9	Site 19A	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.25	-	-	-	-	-
BHP8_0.1-0.1	BHP8	0.1 - 0.1	Site 19A	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.75	-	-	-	-	-
BHP8_0.5-0.6	BHP8	0.5 - 0.6	Site 19A	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.75	-	-	-	-	-
BHP8_2-2.1	BHP8	2 - 2.1	Site 19A	CLAY (CL)	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.75	-	-	-	-	-
FC084_0.1-0.2	FC084	0.1 - 0.2	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5.25	-	0	-	<0.05	-
FC084_4.5-4.7	FC084	4.5 - 4.7	Site 19A	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<3.75	-	-	-	-	-
FC085_0.2-0.3	FC085	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.95	-	0	-	<0.05	-
FC085_0.2-0.3	FC085	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	15	-	-	-	-	-	-	-	-	-	-	0.0000125	-	-	-	-
FC087_0.2-0.3	FC087	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5.25	-	0	-	<0.05	-
FC087_0.2-0.3	FC087	0.2 - 0.3	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC087_2.7-2.9	FC087	2.7 - 2.9	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5.25	-	0	-	<0.05	-
FC087_4.5-4.7	FC087	4.5 - 4.7	Site 19A	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<3.75	-	-	-	-	-
FC088_0.8-1	FC088	0.8 - 1	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.2	-	-	-	-	-
FC088_2.2-2.4	FC088	2.2 - 2.4	Site 19A	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5.25	-	0	-	<0.05	-
BH521_0.1	MW521	0.1 - 0.2	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	1.4	-	-	-	-	-	-	-	-	-
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
BH521_1.0	MW521	1 - 1.1	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	14	-	-	-	-	-	-	-	-	-
BH521_2.0	MW521	2 - 2.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH521_0.5	MW521	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-	-	0	-	-	-
QA20220215-PG2	BH521_0.5	0.5 - 0.6	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	16	-	-	-	-	-	0	-	-	-
QC20220215-PG2	BH521_0.5	0.5 - 0.5	Site 19A	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-	-
BH521_2.0	MW521	2 - 2.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	17	-	-	-	-	-	0	-	-	-
BH521_3.5	MW521	3.5 - 3.6	Site 19A	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-	-	0	-	-	-
BH522_0.5	MW522	0.5 - 0.6	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	3.1	-	-	-	-	-	-	-	-	-
BH522_0.12	MW522	0.12 - 0.22	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	6.2	-	-	-	-	-	-	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	7.7	-	-	-	-	-	-	-	-	-
QA20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	19	-	-	-	-	-	0	-	-	-
QC20220214-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220215-PG1	BH522_1.0	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-	-
BH522_5.0	MW522	5 - 5.1	Site 19A	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	14	-	-	-	-	-	0	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-	0	-	-	-
BH522_1.0	MW522	1 - 1.1	Site 19A	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH522_1.5	MW522	1.5 - 1.6	Site 19A	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	18	-	-	-	-	-	0	-	-	-
BH519_1.0	BH519	1 - 1.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-	-	-	-	-	-
BH519_1.0	BH519	1 - 1.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_2.0	BH519	2 - 2.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-
BH519_2.0	BH519	2 - 2.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_3.0	BH519	3 - 3.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-	-	-	-	-	-
BH519_3.0	BH519	3 - 3.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_4.0	BH519	4 - 4.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	17	-	-	-	-	-	-	-	-	-
BH519_4.0	BH519	4 - 4.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_4.0	BH519	4 - 4.1	Site 19B	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	SPOCAS			Inorganics			Particle Size			Chlorinated Hydrocarbons	Other									
	HCl Extractable Sulfur Correction Factor	sulfidic - Acid Reacted Calcium	sulfidic - Titratable Sulfidic Acidity	Electrical Conductivity (Non Compensated)	Moisture	pH 1:5 soil:water	% Clay*	<2mm Fraction	>2mm Fraction	Hexachlorobutadiene	Moisture Content (dried @ 103°C)	Analysed Material	Asphalt	Extraneous Material	Low Molecular Weight PAHss	Scheduled chemicals	Solids Leachate pH (post rolling)	Total DDT	Total Organic Carbon_
	FACTOR	%S	%S	dS/cm	%	ph	%	%	%	mg/kg	%	%	%	%	mg/kg	mg/L	mg/kg	pH Units	mg/kg	mg/kg
EQL	1	0.005	0.02				1	0.005	0.005	1	1	0.1		0.1				0.1		100
NEPM 2013 Table 1A(1) HILs Res B Soil																				
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																				
>=1m, <2m																				
>=2m, <4m																				
>=4m																				
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																				
>=1m, <2m																				
>=2m, <4m																				
>=4m																				
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																				
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																				
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																				
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																				
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																				
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																				
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																				

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference																		
Stage 4																							
BH519_5.0	BH519	5 - 5.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	17	-	-	-	-	-	-	-	-	-
BH519_5.0	BH519	5 - 5.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH519_6.0	BH519	6 - 6.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	20	-	-	-	-	-	-	-	-	-
BH519_6.0	BH519	6 - 6.1	Site 19B	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_1-1.1	BH7	1 - 1.1	Site 19B	unkown	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_2-2.1	BH7	2 - 2.1	Site 19B	unkown	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_7-7.1	BH7	7 - 7.1	Site 19B	unkown	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP7_1-1.1	BHP7	1 - 1.1	Site 19B	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.81	-	-	-	-	-
BHP7_2-2.1	BHP7	2 - 2.1	Site 19B	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.75	-	-	-	-	-
BHP7_7-7.1	BHP7	7 - 7.1	Site 19B	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	-	-	-	-	-
FC083_0.5-0.7	FC083	0.5 - 0.7	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	-	-	-
FC083_0.5-0.7	FC083	0.5 - 0.7	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	9.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC083_2-2.2	FC083	2 - 2.2	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.45	-	0	-	<0.05	-
FC083_2-2.2	FC083	2 - 2.2	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC086_0.9-1.1	FC086	0.9 - 1.1	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.05	-	0	-	<0.05	-
FC086_1.8-2	FC086	1.8 - 2	Site 19B	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<3.75	-	-	-	-	-
AS03_0.2-0.2	AS03	0.2 - 0.2	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.78	-	-	-	-	-
AS03_0.4-0.4	AS03	0.4 - 0.4	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_1-1	AS03	1 - 1	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS03_2-2	AS03	2 - 2	Site 8C	unkown	EMS 2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15_0.1-0.3	BH15	0.1 - 0.3	Site 8C	Fill - SILT	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1.55	-	-	-	-	-
BH15_0.2-0.2	BH15	0.2 - 0.2	Site 8C	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1.53	-	-	-	-	-
BH16_0.2-0.2	BH16	0.2 - 0.2	Site 8C	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.59	-	-	-	-	-
BH3_0.2-0.4	BH3	0.2 - 0.4	Site 8C	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1.55	-	0	-	<0.05	-
BH3_0.7-0.9	BH3	0.7 - 0.9	Site 8C	Fill - SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1.55	-	-	-	-	-
BH528_0.5	BH528	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-
BH528_0.15	BH528	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	14	-	-	-	-	-	-	-	-	-
QA20220216-PG3	BH528_0.15	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	18	-	-	-	-	-	-	-	-	-
QC20220216-PG3	BH528_0.15	0.15 - 0.25	Site 8C	Fill_SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH529_0.5	BH529	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	9.6	-	-	-	-	-	-	-	-	-
BH529_0.12	BH529	0.12 - 0.22	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	7.7	-	-	-	-	-	-	-	-	-
QA20220216-PG4	BH529_0.12	0.12 - 0.22	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	7.2	-	-	-	-	-	-	-	-	-
QC20220216-PG4	BH529_0.12	0.12 - 0.22	Site 8C	Fill_SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP9_0.5-0.6	BHP9	0.5 - 0.6	Site 8C	Fill_CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.56	-	-	-	-	-
BHP9_0.9-1	BHP9	0.9 - 1	Site 8C	Fill_CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1.6	-	-	-	-	-
FC078_0.1-0.2	FC078	0.1 - 0.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	2.3	-	8.3	-	-	-	-	-	-	-	-	<5.25	-	0	-	<0.05	-
FC078_2-2.2	FC078	2 - 2.2	Site 8C	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5.25	-	0	-	<0.05	-
FC078_4-4.2	FC078	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	2	-	5.5	-	-	-	-	-	-	-	-	<3.75	-	-	-	-	-
QC16	FC078_4-4.2	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<3.75	-	-	-	-	-
QC16-A	FC078_4-4.2	4 - 4.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.775	-	0	-	-	-
FC079_0.1-0.2	FC079	0.1 - 0.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	1.7	-	8.5	-	-	-	-	-	-	-	-	<5.25	-	0	-	<0.05	-
FC079_1.8-2	FC079	1.8 - 2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	2.2	-	8.4	-	-	-	-	-	-	-	-	5.95	-	0	-	<0.05	-
FC081_0.2-0.3	FC081	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	0.76	-	8.9	-	-	-	-	-	-	-	-	<5.25	-	0	-	<0.05	-
FC081_0.8-1	FC081	0.8 - 1	Site 8C	CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5.25	-	0	-	<0.05	-
FC082_0.2-0.3	FC082	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.1	-	0	-	<0.05	-
FC082_0.2-0.3	FC082	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	9.5	-	-	-	-	-	-	-	-	-	-	0.0000365	-	-	-	-
FC082_1.8-2	FC082	1.8 - 2	Site 8C	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5.25	-	0	-	<0.05	-
FC082_2.8-3	FC082	2.8 - 3	Site 8C	Fill_CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<3.75	-	-	-	-	-
FC097_0.2-0.3	FC097	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	3.1	-	8.3	-	-	-	-	-	-	-	-	9.8	-	0	-	<0.05	-
FC097_0.2-0.3	FC097	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	SPOCAS			Inorganics			Particle Size			Chlorinated Hydrocarbons	Other									
	HCl Extractable Sulfur Correction Factor	sulfidic - Acid Reacted Calcium	sulfidic - Titratable Sulfidic Acidity	Electrical Conductivity (Non Compensated)	Moisture	pH 1:5 soil:water	% Clay*	<2mm Fraction	>2mm Fraction	Hexachlorobutadiene	Moisture Content (dried @ 103°C)	Analysed Material	Asphalt	Extraneous Material	Low Molecular Weight PAHss		Scheduled chemicals	Solids Leachate pH (post rolling)	Total DDT	Total Organic Carbon_
	FACTOR	%S	%S	dS/cm	%	ph	%	%	%	mg/kg	%	%	%	%	mg/kg	mg/L	mg/kg	pH Units	mg/kg	mg/kg
EQL	1	0.005	0.02				1	0.005	0.005	1	1	0.1		0.1				0.1		100
NEPM 2013 Table 1A(1) HILs Res B Soil																				
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																				
>=1m, <2m																				
>=2m, <4m																				
>=4m																				
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																				
>=1m, <2m																				
>=2m, <4m																				
>=4m																				
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																				
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																				
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																				
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																				
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																				
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																				
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																				

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference																	
Stage 4																						
FC097_1.3-1.5	FC097	1.3 - 1.5	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	<3.75	-	-	-	-	-
FC097_2-2.2	FC097	2 - 2.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	3.8	-	7.4	-	-	-	-	-	-	-	<5.25	-	0	-	<0.05	-
FC097_3-3.2	FC097	3 - 3.2	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	2.5	-	9.3	-	-	-	-	-	-	-	<3.75	-	-	-	-	-
FC098_0.2-0.3	FC098	0.2 - 0.3	Site 8C	Fill_SAND	JBS&G 2014	-	-	-	1.7	-	7.7	-	-	-	-	-	-	-	9.5	-	0	-	<0.05	-
BH524_6.5	MW524	6.5 - 6.6	Site 8C	SHALE	JBS&G 2022	2	<0.005	0.06	-	-	-	-	20	<0.005	-	26	100	-	<0.1	-	-	-	-	-
BH524_7.0	MW524	7 - 7.1	Site 8C	SHALE	JBS&G 2022	2	<0.005	0.06	-	-	-	-	23	<0.005	-	19	100	-	<0.1	-	-	-	-	-
BH524_7.5	MW524	7.5 - 7.6	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	25	-	-	-	-	-	0	-	100
BH524_8.5	MW524	8.5 - 8.6	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	18	-	-	-	-	-	0.06	-	200
BH524_0.1	MW524	0.1 - 0.2	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	7.3	-	-	-	-	-	0	-	-
BH524_0.5	MW524	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
BH524_1.5	MW524	1.5 - 1.6	Site 8C	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	6.1	-	-	-	-	-	0	-	-
BH526_3.5	MW526	3.5 - 3.6	Site 8C	SHALE	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	16	-	-	-	-	-	0	-	-
BH526_0.5	MW526	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	7.6	-	-	-	-	-	-	-	-
BH526_0.15	MW526	0.15 - 0.25	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-
BH526_1.0	MW526	1 - 1.1	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	9.6	-	-	-	-	-	0	-	-
BH526_1.5	MW526	1.5 - 1.6	Site 8C	Fill - Re-Worked Natural	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	0	-	-
BH527_0.5	MW527	0.5 - 0.6	Site 8C	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	6.6	-	-	-	-	-	-	-	-
BH527_1.0	MW527	1 - 1.1	Site 8C	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	8.4	-	-	-	-	-	-	-	-
BH14_0.2-0.2	BH14	0.2 - 0.2	Site 8D	unknown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1.53	-	-	-	-
BH14_2-2	BH14	2 - 2	Site 8D	unknown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.25	-	-	-	-
BH5_0.5-0.7	BH5	0.5 - 0.7	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-	-
BH5_0.6-0.8	BH5	0.6 - 0.8	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.8-0.9	BH5	0.8 - 0.9	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH1 0.5-0.7	BH5	0.5 - 0.7	Site 8D	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1.55	-	-	-	<0.05
BHP6A_0.5-0.6	BHP6A	0.5 - 0.6	Site 8D	Fill - SILT	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.7	-	-	-	-
BHP6A_2-2.1	BHP6A	2 - 2.1	Site 8D	Fill - SILT	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.7	-	-	-	-
FC077_0.8-1	FC077	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5.25	-	0	-	<0.05
FC077_1-1.2	FC077	1 - 1.2	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.3	-	-	-	-
FC077_2-2.2	FC077	2 - 2.2	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.5	-	-	-	-
FC080_0.2-0.3	FC080	0.2 - 0.3	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.8	-	0	-	<0.05
FC080_0.8-1	FC080	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-	-
FC080_0.8-1	FC080	0.8 - 1	Site 8D	Fill_SAND	JBS&G 2014	-	-	-	-	17	-	-	-	-	-	-	-	-	-	-	0.000007	-	-	-
BH525_0.1	MW525	0.1 - 0.2	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	2.5	-	-	-	-	-	-	-	-
BH525_0.5	MW525	0.5 - 0.6	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-
BH525_1.0	MW525	1 - 1.1	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH525_1.0	MW525	1 - 1.1	Site 8D	Fill - SAND	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	0	-	-
BH525_3.5	MW525	3.5 - 3.6	Site 8D	Fill - CLAY	JBS&G 2022	-	-	-	-	-	-	-	-	-	-	7.6	-	-	-	-	-	0	-	-
Stage 5																						
BH4_0.2	BH4	0.2	Internal Road	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.6	-	-	-	-
R12_0.4-0.5	R12	0.4 - 0.5	Internal Road	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.56	-	-	-	-
R12_1.9-2	R12	1.9 - 2	Internal Road	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1.88	-	-	-	-
R14_0.9-1	R14	0.9 - 1	Internal Road	Fill - SAND	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-
R14_1.9-2	R14	1.9 - 2	Internal Road	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.01	-	-	-	-
S5-W1-0.5-0.6	S5-W1	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	9.2	-	-	-	-	-	-	-	-
S5-W1-0.5-0.6	S5-W1	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W1-2.0-2.1	S5-W1	2 - 2.1	Internal Road	Fill-Gravelly clay, dark brown inc. sandstone gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-	-	-	-	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	SPOCAS			Inorganics			Particle Size			Chlorinated Hydrocarbons	Other									
	HCl Extractable Sulfur Correction Factor	sulfidic - Acid Reacted Calcium	sulfidic - Titratable Sulfidic Acidity	Electrical Conductivity (Non Compensated)	Moisture	pH 1:5 soil:water1:5 soil:water	% Clay*	<2mm Fraction	>2mm Fraction	Hexachlorobutadiene	Moisture Content (dried @ 103°C)	Analysed Material	Asphalt	Extraneous Material	Low Molecular Weight PAHss	Scheduled chemicals	Solids Leachate pH (post rolling)	Total DDT	Total Organic Carbon_
	FACTOR	%S	%S	dS/cm	%	ph	%	%	%	mg/kg	%	%	%	%	mg/kg	mg/L	mg/kg	pH Units	mg/kg	mg/kg
EQL	1	0.005	0.02				1	0.005	0.005	1	1	0.1		0.1				0.1		100
NEPM 2013 Table 1A(1) HILs Res B Soil																				
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																				
>=1m, <2m																				
>=2m, <4m																				
>=4m																				
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																				
>=1m, <2m																				
>=2m, <4m																				
>=4m																				
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																				
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																				
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																				
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																				
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																				
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																				
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																				

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference																	
Stage 5																						
S5-W3-0.3-0.4	S5-W3	0.3 - 0.4	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-
S5-W3-0.5-0.6	S5-W3	0.5 - 0.6	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-
S5-W3 0.3-0.4	S5-W3	0.3 - 0.4	Internal Road	Fill-Gravelly sand, brown inc. organics, rootlets, gravels and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH3 2.0-2.2	BH3	2 - 2.2	Site 8A	Fill - CLAY	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.7	-	-	-	<0.05	-
BH2 1.3-1.5	BH2	1.3 - 1.5	Site 8A	SAND	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH5_0.2	BH5	0.2	Site 8A	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<3.1	-	-	-	-	-
BH5_2.0	BH5	2	Site 8A	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-3-0.3-0.4	S5-3	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	9.1	-	-	-	-	-	-	-	-	-
S5-3-0.3-0.4	S5-3	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IQC2	S5-3-0.3-0.4	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IQC2	S5-3-0.3-0.4	0.3 - 0.4	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-3-0.5-0.6	S5-3	0.5 - 0.6	Site 8A	Fill-Gravelly clayey sand, brown inc. igneous gravels and trace organics	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-	-	-	-	-	-
S5-3-1.0-1.1	S5-3	1 - 1.1	Site 8A	Fill-Silty gravelly sand, brown inc. trace gravels and ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-4-1.0-1.1	S5-4	1 - 1.1	Site 8A	Fill-Silty gravelly sand, brown inc. trace gravels and ash	JBS&G 2023c	-	-	-	-	-	-	1.5	-	-	-	8.8	-	-	-	-	-	-	-	-	-
S5-5-0.0-0.1	S5-5	0 - 0.1	Site 8A	Fill-Gravelly sand, brown inc. roadbase gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	4.0	-	-	-	-	-	-	-	-	-
S5-5-0.3-0.4	S5-5	0.3 - 0.4	Site 8A	Fill-Gravelly sand, brown inc. roadbase gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	7.2	-	-	-	-	-	-	-	-	-
S5-5-0.5-0.6	S5-5	0.5 - 0.6	Site 8A	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W2-0.5-0.6	S5-W2	0.5 - 0.6	Site 8A	Fill-Gravelly sand, dark brown inc. organics and concrete	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-
IQA1	S5-W2-0.5-0.6	0.5 - 0.6	Site 8A	-	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-	-	-	-	-	-
IQC1	S5-W2-0.5-0.6	0.5 - 0.6	Site 8A	-	JBS&G 2023c	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-
FC075 0.2-0.3	FC075	0.2 - 0.3	Site 8A	Fill - SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.65	-	-	-	<0.05	-
FC075 0.6-0.8	FC075	0.6 - 0.8	Site 8A	Fill - Brick	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC075 0.8-1.0	FC075	0.8 - 1	Site 8A	SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5.25	-	-	-	<0.05	-
FC075 1.0-1.2	FC075	1 - 1.2	Site 8A	SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5.25	-	-	-	<0.05	-

Table B: SOIL SUMMARY TABLE
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	SPOCAS			Inorganics			Particle Size			Chlorinated Hydrocarbons	Other									
	HCl Extractable Sulfur Correction Factor	sulfidic - Acid Reacted Calcium	sulfidic - Titratable Sulfidic Acidity	Electrical Conductivity (Non Compensated)	Moisture	pH 1:5 soil:water1:5 soil:water	% Clay*	<2mm Fraction	>2mm Fraction	Hexachlorobutadiene	Moisture Content (dried @ 103°C)	Analysed Material	Asphalt	Extraneous Material	Low Molecular Weight PAHss	Scheduled chemicals	Solids Leachate pH (post rolling)	Total DDT	Total Organic Carbon_
	FACTOR	%S	%S	dS/cm	%	ph	%	%	%	mg/kg	%	%	%	%	mg/kg	mg/L	mg/kg	pH Units	mg/kg	mg/kg
EQL	1	0.005	0.02				1	0.005	0.005	1	1	0.1		0.1				0.1		100
NEPM 2013 Table 1A(1) HILs Res B Soil																				
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay (0-1m)																				
>=1m, <2m																				
>=2m, <4m																				
>=4m																				
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand (0-1m)																				
>=1m, <2m																				
>=2m, <4m																				
>=4m																				
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																				
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																				
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																				
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																				
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																				
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)																				
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																				

Field ID	Location Code	Depth	Site Location	Matrix Description	Reference																	
BH13_0.2	BH13	0.2	Site 8B	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.1	-	-	-	-	-
BH6_0.2	BH6	0.2	Site 8B	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<3.1	-	-	-	-	-
Stage 5																						
BH7_0.2	BH7	0.2	Site 8B	unkown	EMS 2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-1-0.5-0.6	S5-1	0.5 - 0.6	Site 8B	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c	-	-	-	-	-	-	<1	-	-	-	3.9	-	-	-	-	-	-	-	-	-
S5-1-0.5-0.6	S5-1	0.5 - 0.6	Site 8B	Fill-Gravelly clayey sand, dark browninc. shale and trace ash	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-1-2.0-2.1	S5-1	2 - 2.1	Site 8B	Nat-Silty clay, yellow, grey	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	18	-	-	-	-	-	-	-	-	-
S5-2-0.3-0.4	S5-2	0.3 - 0.4	Site 8B	Fill-Gravelly sand, brown inc. igneous roadbase gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	6.3	-	-	-	-	-	-	-	-	-
S5-2-0.5-0.6	S5-2	0.5 - 0.6	Site 8B	Fill-Gravelly sand, brown inc. igneous roadbase gravels	JBS&G 2023c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC073 0.2-0.3	FC073	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5.25	-	-	-	<0.05	-
FC073 1-1.2	FC073	1 - 1.2	Site 8B	Fill - SAND	JBS&G 2014	-	-	-	-	15	-	-	-	-	-	-	-	-	-	<5.25	-	-	-	<0.05	-
FC073 1.5-1.7	FC073	1.5 - 1.7	Site 8B	CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5.25	-	-	-	<0.05	-
FC074 0.2-0.3	FC074	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	-	-	-	-	17	-	-	-	-	-	-	-	-	-	<5.25	-	-	-	<0.05	-
QC04	FC074_0.2-0.3	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5.25	-	-	-	<0.05	-
QC04-A	FC074_0.2-0.3	0.2 - 0.3	Site 8B	Fill - SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.21	-	-	-	<0.1	-
FC074 0.8-1	FC074	0.8 - 1	Site 8B	SAND	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5.25	-	-	-	<0.05	-
FC074 3.0-3.2	FC074	3 - 3.2	Site 8B	CLAY	JBS&G 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<3.75	-	-	-	-	-

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil

Table C - Groundwater Analytical Results Summary Table
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	Metals & Metalloids												TPHs (NEPC 1999)					TRHs (NEPC 2013)							BTEXN									
	Arsenic	Barium	Cadmium	Chromium (III+VI)	Copper	Iron	Lead	Manganese	Mercury	Nickel	Tin	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			
	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		0.0001	0.001	0.001		0.001		0.00005	0.001		0.001	0.01	0.05	0.1	0.1	0.05	0.01	0.05	0.1	0.1	0.05	0.01	0.05	0.001	0.001	0.001	0.001	0.002	0.003	0.001			
ADWG (2011) Health x 10 (Recreational) - Updated June 2025	0.1	20	0.02	0.5	20		0.05	1	0.01	0.2															0.01	8	3	6	6	6				
ANZG (2018) Marine water (unknown) toxicant DGVs								0.08																										
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			
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																							1 | 1 | 1	1 | 1 | 1	0.8 | 0.9 | 0.8									
>=2m, <4m																							1	1	0.8									
>=4m, <8m																							1	1	0.9									
>=8m																							1	1	0.8									
PFAS NEMP 3.0 (2025) Interim marine 95% species protection																																		
PFAS NEMP 3.0 (2025) Recreational Water																																		

Field ID	Well Reference	Date	Lithology																															
Stage 4																																		
BHP8	DP_2011_BHP8	14 Feb 2011	SILTSTONE/SANDSTONE[3]	0.002	-	<0.0001	<0.001	<0.001	-	<0.001	-	<0.0001	0.007	-	0.55	<0.04	-	-	-	-	-	-	-	-	-	-	-	-	<0.0005	<0.0005	-	<0.0005	-	-
MW521	JBSG_2022_MW521	18 Feb 2022	FILL[2]	<0.001	-	<0.0002	<0.001	0.003	-	<0.001	-	<0.0001	0.002	-	0.040	<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	-
MW522	JBSG_2022_MW522	18 Feb 2022	FILL[2]	<0.001	-	0.0004	<0.001	0.004	-	<0.001	-	<0.0001	0.006	-	0.43	<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	-
QA01	JBSG_2022_MW522	18 Feb 2022	FILL[2]	<0.001	-	0.0004	<0.001	0.005	-	<0.001	-	<0.0001	0.006	-	0.42	<0.02	0.18	0.3	<0.1	0.48	<0.02	0.05	0.3	<0.1	0.35	<0.02	0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	-
QA01	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01	JBSG_2022_MW523	18 Feb 2022	SHALE	<0.001	-	0.0004	<0.001	0.003	-	<0.001	-	<0.00005	0.006	-	0.41	<0.01	<0.05	<0.1	<0.1	<0.05	<0.01	<0.05	<0.1	<0.1	<0.05	<0.01	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	0	-
MW524	JBSG_2022_MW524	18 Feb 2022	SHALE	<0.001	-	<0.0002	<0.001	0.001	-	<0.001	-	<0.0001	0.030	-	0.081	<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	-
MW525	JBSG_2022_MW525	18 Feb 2022	FILL	<0.001	-	0.0012	<0.001	0.003	-	<0.001	-	<0.0001	0.092	-	0.42	<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	-
MW526	JBSG_2022_MW526	18 Feb 2022	FILL	<0.001	-	0.0013	<0.001	0.013	-	0.002	-	<0.0001	0.071	-	0.26	<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	-
MW530	JBSG_2022_MW530	21 Feb 2022	FILL	0.14	-	<0.0002	0.003	0.003	-	<0.001	-	<0.0001	0.007	-	0.027	<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	-
BH15/GW2	HLA_2007_POL_GW2/BH	13 Jun 2007	SILTSTONE	0.014	-	0.0004	<0.001	0.001	-	0.002	-	-	-	-	0.021	<0.05	<0.05	<0.2	<0.05	-	-	-	-	-	-	-	-	<0.001	<0.001	<0.001	<0.001	<0.002	0	-
GW6	Coffey_1998_GW6	03 Mar 1998	NATURAL[2]	0.012	0.161	<0.001	<0.001	<0.001	0.0301	0.002	0.585	0.0007	0.009	<0.001	0.002	<0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW6	Coffey_1998_GW6	10 Sep 1998	NATURAL[2]	<0.01	0.172	<0.001	<0.001	<0.001	30.2	<0.001	0.657	<0.0001	0.01	<0.001	0.007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW6	Coffey_1998_GW6	12 Dec 2001	NATURAL[2]	0.126	0.212	0.002	<0.001	<0.001	33.7	<0.001	0.533	<0.0001	0.005	<0.001	0.003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stage 5																																		
GW5	Coffey_1998_GW5	24 May 2007	NATURAL[2]	0.011	-	<0.0001	<0.001	<0.001	-	-	-	<0.0001	0.004	-	0.013	<0.05	0.05	<0.2	0.14	0.19	-	-	-	-	-	-	-	<0.001	<0.001	<0.001	0.002	0.005	0.007	-
GW5	Coffey_1998_GW5	13 Jun 2007	NATURAL[2]	0.019	-	<0.0001	<0.001	<0.001	-	<0.001	-	<0.0001	0.006	-	0.03	<0.05	<0.05	<0.2	<0.05	-	-	-	-	-	-	-	-	<0.001	<0.001	<0.001	<0.001	<0.002	0	-
TRIP1	Coffey_1998_GW5	24 May 2007	NATURAL[2]	0.011	-	<0.0001	<0.005	<0.001	-	0.004	-	<0.0001	0.002	-	0.014	0.04	0.06	0.2	0.07	0.33	-	-	-	-	-	-	-	0.001	<0.0020	<0.0020	0.002	0.005	0.008	-
GW5D	Coffey_1998_GW5	03 Mar 1998	NATURAL[2]	0.01	0.01	<0.001	<0.001	0.001	0.0235	0.002	1.27	<0.0001	0.134	<0.001	0.857	<0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW5D	Coffey_1998_GW5	10 Sep 1998	NATURAL[2]	<0.01	0.014	<0.001	<0.001	0.002	21	<0.001	1.19	<0.0001	0.061	<0.001	0.551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW5D	Coffey_1998_GW5	12 Dec 2001	NATURAL[2]	0.018	0.023	<0.001	<0.001	<0.001	28.9	<0.001	1.11	<0.0001	0.114	<0.001	0.531	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP5	DP_2011_BHP5	14 Feb 2011	SILTSTONE/SANDSTONE[3]	0.004	-	<0.0001	<0.001	0.001	-	<0.001	-	<0.0001	<0.001	-	0.26	<0.04	-	-	-	-	-	-	-	-	-	-	-	<0.0005	<0.0005	<0.0005	-	<0.0005	-	-
S5-W1	JBSG_2023_S5-W1	16 Jun 2023	FILL	0.029	-	<0.0002	<0.001	0.006	-	<0.001	-	<0.0001	0.003	-	0.049	<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
S5-W2	JBSG_2023_S5-W2	14 Jun 2023	CLAY	<0.001	-	<0.0002	<0.001	0.007	-	<0.001	-	<0.0001	0.069	-	0.17	<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
S5-W3	JBSG_2023_S5-W3	14 Jun 2023	CLAY	0.001	-	<0.0002	<0.001	<0.001	-	<0.001	-	<0.0001	0.15	-	0.59	<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
QA_23614	JBSG_2023_S5-W3	14 Jun 2023	CLAY	0.011	-	<0.0001	<0.001	0.001	-	<0.001	-	<0.00005	0.16	-	0.71	<0.01	<0.05	<0.1	<0.1	<0.05	<0.01	<0.05	<0.1	<0.1	<0.05	<0.01	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	-	<0.001
QC23614	JBSG_2023_S5-W3	14 Jun 2023	CLAY	0.010	-	<0.0002	<0.001	0.004	-	<0.001	-	<0.0001	0.14	-	0.58	<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

Environmental Standards
ANZG, 2018, ANZG (2018) Marine water 95% toxicant DGVs
ANZG, 2018, ANZG (2018) Marine water 99% toxicant DGVs

Table C - Groundwater Analytical Results Summary Table
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

				PAH																								
				2-Methylnaphthalene	3-Methylcholanthrene	7,12-Dimethylbenz(a)anthracene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(b+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)	Carcinogenic PAHs as B(a)P TEQ	2-(acetylamino) fluorene
				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							0.00001	0.00001	0.00001	0.00001	0.00001	0.00005	0.00001	0.00002		0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001		
ADWG (2011) Health x 10 (Recreational) - Updated June 2025											0.0001																	
ANZG (2018) Marine water (unknown) toxicant DGVs																												
ANZG (2018) Marine water 95% toxicant DGVs									0.0004		0.0002									0.0014			0.07	0.002				
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																												
>=2m, <4m																												
>=4m, <8m																												
>=8m																												
PFAS NEMP 3.0 (2025) Interim marine 95% species protection																												
PFAS NEMP 3.0 (2025) Recreational Water																												
Field ID	**Well Reference**	**Date**	**Lithology**																									
Stage 4																												
BHP8	DP_2011_BHP8	14 Feb 2011	SILTSTONE/SANDSTONE[3]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW521	JBSG_2022_MW521	18 Feb 2022	FILL[2]	-	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	-	<0.00001	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0	-
MW522	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	-	<0.00001	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0	-
QA01	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	-	<0.00001	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00002	<0.00001	<0.00001	0.00002	0	-
QA01	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-
QC01	JBSG_2022_MW523	18 Feb 2022	SHALE	-	-	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	-	<0.0002	-	<0.0001	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	0	-
MW524	JBSG_2022_MW524	18 Feb 2022	SHALE	-	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	-	<0.00001	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0	-
MW525	JBSG_2022_MW525	18 Feb 2022	FILL	-	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	-	<0.00001	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0	-
MW526	JBSG_2022_MW526	18 Feb 2022	FILL	-	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	-	<0.00001	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0	-
MW530	JBSG_2022_MW530	21 Feb 2022	FILL	-	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	-	<0.00001	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0	-
BH15/GW2	HLA_2007_POL_GW2/BH	13 Jun 2007	SILTSTONE	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	-	<0.004	<0.002	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	0	<0.002
GW6	Coffey_1998_GW6	03 Mar 1998	NATURAL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW6	Coffey_1998_GW6	10 Sep 1998	NATURAL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW6	Coffey_1998_GW6	12 Dec 2001	NATURAL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stage 5																												
GW5	Coffey_1998_GW5	24 May 2007	NATURAL[2]	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	-	<0.004	<0.002	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	-	0	<0.002
GW5	Coffey_1998_GW5	13 Jun 2007	NATURAL[2]	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	-	<0.004	<0.002	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	0	<0.002
TRIP1	Coffey_1998_GW5	24 May 2007	NATURAL[2]	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	-	<0.004	<0.002	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	0	<0.002
GW5D	Coffey_1998_GW5	03 Mar 1998	NATURAL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW5D	Coffey_1998_GW5	10 Sep 1998	NATURAL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW5D	Coffey_1998_GW5	12 Dec 2001	NATURAL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP5	DP_2011_BHP5	14 Feb 2011	SILTSTONE/SANDSTONE[3]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W1	JBSG_2023_S5-W1	16 Jun 2023	FILL	-	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	-	<0.00001	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	-	-
S5-W2	JBSG_2023_S5-W2	14 Jun 2023	CLAY	-	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	-	<0.00001	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	-	-
S5-W3	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	-	<0.00001	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	-	-
QA_23614	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00005	-	<0.00002	-	<0.00001	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00002	<0.00001	<0.00001	0	-	-
QC23614	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	-	<0.00001	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	-	-

Environmental Standards
ANZG, 2018, ANZG (2018) Marine water 95% toxicant DGVs
ANZG, 2018, ANZG (2018) Marine water 99% toxicant DGVs

Table C - Groundwater Analytical Results Summary Table
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

						Organochlorine Pesticides																															
						Pentachlorophenol	4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane (cis)	Chlordane (trans)	DDD	DDT+DDE+DDD	Endosulfan	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endosulfan sulphate	Endrin	Endrin	Endrin aldehyde	Endrin aldehyde	Endrin ketone	Endrin ketone	Heptachlor	Heptachlor	Heptachlor Epoxide	Heptachlor Epoxide	Hexachlorobenzene	Hexachlorobenzene	Methoxychlor	Methoxychlor	Toxaphene
						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	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L
EQL							0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002			0.0002	0.0002				0.0002		0.0002		0.0002		0.0002		0.0002		0.0002		0.0002		0.0002		0.005
ADWG (2011) Health x 10 (Recreational) - Updated June 2025						0.1					0.1	0.003	0.003	0.003					0.2										0.003						3		
ANZG (2018) Marine water (unknown) toxicant DGVs											0.000007	0.000003																	0.0000004						0.00004		0.0000006
ANZG (2018) Marine water 95% toxicant DGVs						0.022													0.00001					0.000008										0.0001				
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																																						
>=2m, <4m																																						
>=4m, <8m																																						
>=8m																																						
PFAS NEMP 3.0 (2025) Interim marine 95% species protection																																						
PFAS NEMP 3.0 (2025) Recreational Water																																						
Field ID	**Well Reference**	**Date**	**Lithology**																																			
Stage 4																																						
BHP8	DP_2011_BHP8	14 Feb 2011	SILTSTONE/SANDSTONE[3]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
MW521	JBSG_2022_MW521	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW522	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA01	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA01	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01	JBSG_2022_MW523	18 Feb 2022	SHALE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW524	JBSG_2022_MW524	18 Feb 2022	SHALE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW525	JBSG_2022_MW525	18 Feb 2022	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW526	JBSG_2022_MW526	18 Feb 2022	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW530	JBSG_2022_MW530	21 Feb 2022	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15/GW2	HLA_2007_POL_GW2/BH	13 Jun 2007	SILTSTONE	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.008	<0.002	-	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	-
GW6	Coffey_1998_GW6	03 Mar 1998	NATURAL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
GW6	Coffey_1998_GW6	10 Sep 1998	NATURAL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
GW6	Coffey_1998_GW6	12 Dec 2001	NATURAL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
Stage 5																																						
GW5	Coffey_1998_GW5	24 May 2007	NATURAL[2]	<0.004	<0.002	-	-	<0.002	<0.002	<0.002	<0.002	-	<0.002	<0.002	<0.002	0	<0.002	-	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	-
GW5	Coffey_1998_GW5	13 Jun 2007	NATURAL[2]	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.008	<0.002	-	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	-
TRIP1	Coffey_1998_GW5	24 May 2007	NATURAL[2]	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	<0.002	<0.002	<0.002	0	<0.002	-	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	-
GW5D	Coffey_1998_GW5	03 Mar 1998	NATURAL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
GW5D	Coffey_1998_GW5	10 Sep 1998	NATURAL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
GW5D	Coffey_1998_GW5	12 Dec 2001	NATURAL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
BHP5	DP_2011_BHP5	14 Feb 2011	SILTSTONE/SANDSTONE[3]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
S5-W1	JBSG_2023_S5-W1	16 Jun 2023	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W2	JBSG_2023_S5-W2	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W3	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA_23614	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC23614	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Environmental Standards
ANZG, 2018, ANZG (2018) Marine water 95% toxicant DGVs
ANZG, 2018, ANZG (2018) Marine water 99% toxicant DGVs

Table C - Groundwater Analytical Results Summary Table
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

				Organophosphorus Pesticides																											
				Azinophos methyl	Chlorpyrifos	Coumaphos	Demeton-O	Demeton-S	Diazinon	Dichlorvos	Dimethoate	Disulfoton	EPN	Ethoprop	Ethyl methanesulfonate	Fenitrothion	Fensulfothion	Fenthion	Malathion	Methyl methanesulfonate	Methyl parathion	Mevinphos (Phosdrin)	Naled (Dibrom)	Phorate	Prothiofos	Ronnel	Safrole	Stirophos	Trichloronate	Parathion	Profenofos
				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																															
ADWG (2011) Health x 10 (Recreational) - Updated June 2025				0.3	0.1				0.04	0.05	0.07	0.04		0.01		0.07	0.1	0.07	0.7		0.007	0.05								0.2	0.003
ANZG (2018) Marine water (unknown) toxicant DGVs																0.000001															
ANZG (2018) Marine water 95% toxicant DGVs					0.000009																										
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																															
>=2m, <4m																															
>=4m, <8m																															
>=8m																															
PFAS NEMP 3.0 (2025) Interim marine 95% species protection																															
PFAS NEMP 3.0 (2025) Recreational Water																															
Field ID	**Well Reference**	**Date**	**Lithology**																												
Stage 4																															
BHP8	DP_2011_BHP8	14 Feb 2011	SILTSTONE/SANDSTONE[3]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MW521	JBSG_2022_MW521	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW522	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA01	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA01	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01	JBSG_2022_MW523	18 Feb 2022	SHALE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW524	JBSG_2022_MW524	18 Feb 2022	SHALE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW525	JBSG_2022_MW525	18 Feb 2022	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW526	JBSG_2022_MW526	18 Feb 2022	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW530	JBSG_2022_MW530	21 Feb 2022	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15/GW2	HLA_2007_POL_GW2/BH	13 Jun 2007	SILTSTONE	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-
GW6	Coffey_1998_GW6	03 Mar 1998	NATURAL[2]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GW6	Coffey_1998_GW6	10 Sep 1998	NATURAL[2]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GW6	Coffey_1998_GW6	12 Dec 2001	NATURAL[2]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stage 5																															
GW5	Coffey_1998_GW5	24 May 2007	NATURAL[2]	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
GW5	Coffey_1998_GW5	13 Jun 2007	NATURAL[2]	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
TRIP1	Coffey_1998_GW5	24 May 2007	NATURAL[2]	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
GW5D	Coffey_1998_GW5	03 Mar 1998	NATURAL[2]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GW5D	Coffey_1998_GW5	10 Sep 1998	NATURAL[2]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GW5D	Coffey_1998_GW5	12 Dec 2001	NATURAL[2]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BHP5	DP_2011_BHP5	14 Feb 2011	SILTSTONE/SANDSTONE[3]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S5-W1	JBSG_2023_S5-W1	16 Jun 2023	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W2	JBSG_2023_S5-W2	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W3	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA_23614	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC23614	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Environmental Standards
ANZG, 2018, ANZG (2018) Marine water 95% toxicant DGVs
ANZG, 2018, ANZG (2018) Marine water 99% toxicant DGVs

Table C - Groundwater Analytical Results Summary Table
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

				Chlorinated Alkanes																				Chlorinated Alkenes									
				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	Hexachloroethane	Pentachloroethane	Trichlorofluoromethane	Vinyl Chloride	1,1-dichloroethene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	cis-1.4-Dichloro-2-butene	Tetrachloroethene	Tetrachloroethene
				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	ug/L	mg/L	ug/L
EQL				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	
ADWG (2011) Health x 10 (Recreational) - Updated June 2025											0.03					0.03				0.04				0.003	0.3				0.6			0.5	
ANZG (2018) Marine water (unknown) toxicant DGVs																																	
ANZG (2018) Marine water 95% toxicant DGVs					0.27	0.4	1.9				1.9	0.9	1.1			0.24				4		0.08		0.1	0.7							0.07	
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																																	
>=2m, <4m																																	
>=4m, <8m																																	
>=8m																																	
PFAS NEMP 3.0 (2025) Interim marine 95% species protection																																	
PFAS NEMP 3.0 (2025) Recreational Water																																	
Field ID	**Well Reference**	**Date**	**Lithology**																														
Stage 4																																	
BHP8	DP_2011_BHP8	14 Feb 2011	SILTSTONE/SANDSTONE[3]	0	0	0	0	0	0	0	-	0	0	0	-	-	0	0	0	-	0	0	0	0	0	0	0	-	0	0	0	0	-	0
MW521	JBSG_2022_MW521	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW522	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA01	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA01	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01	JBSG_2022_MW523	18 Feb 2022	SHALE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW524	JBSG_2022_MW524	18 Feb 2022	SHALE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW525	JBSG_2022_MW525	18 Feb 2022	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW526	JBSG_2022_MW526	18 Feb 2022	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW530	JBSG_2022_MW530	21 Feb 2022	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15/GW2	HLA_2007_POL_GW2/BH	13 Jun 2007	SILTSTONE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.002	<0.002	-	-	-	-	-	-	-	-	-	-	-
GW6	Coffey_1998_GW6	03 Mar 1998	NATURAL[2]	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	-	-	<0.05	<0.05	<0.05	-	0	<0	<0.05	<0.05	<0.005	<0.005	-	<0.005	<0.005	<0.01	<5	-	<5
GW6	Coffey_1998_GW6	10 Sep 1998	NATURAL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-
GW6	Coffey_1998_GW6	12 Dec 2001	NATURAL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-
Stage 5																																	
GW5	Coffey_1998_GW5	24 May 2007	NATURAL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.002	<0.002	-	-	-	-	-	-	-	-	-	-	-
GW5	Coffey_1998_GW5	13 Jun 2007	NATURAL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.002	<0.002	-	-	-	-	-	-	-	-	-	-	-
TRIP1	Coffey_1998_GW5	24 May 2007	NATURAL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.002	<0.002	-	-	-	-	-	-	-	-	-	-	-
GW5D	Coffey_1998_GW5	03 Mar 1998	NATURAL[2]	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	-	-	<0.05	<0.05	<0.05	-	0	<0	<0.05	<0.05	<0.005	<0.005	-	<0.005	<0.005	<0.01	<5	-	<5
GW5D	Coffey_1998_GW5	10 Sep 1998	NATURAL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-
GW5D	Coffey_1998_GW5	12 Dec 2001	NATURAL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-
BHP5	DP_2011_BHP5	14 Feb 2011	SILTSTONE/SANDSTONE[3]	0	0	0	0	0	0	0	-	0	0	0	-	-	0	0	0	-	0	0	0	0	0	0	-	0	0	0	0	-	0
S5-W1	JBSG_2023_S5-W1	16 Jun 2023	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W2	JBSG_2023_S5-W2	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W3	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA_23614	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC23614	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Environmental Standards
ANZG, 2018, ANZG (2018) Marine water 95% toxicant DGVs
ANZG, 2018, ANZG (2018) Marine water 99% toxicant DGVs

Table C - Groundwater Analytical Results Summary Table
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

				Chlorinated Alkenes							Semivolatile Organic Compounds (1 of 2)																											
				trans-1,2-dichloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	trans-1,3-dichloropropene	trans-1,4-Dichloro-2-butene	Trichloroethene	Trichloroethene	2-Chloronaphthalene	2-Chloronaphthalene	Bis(2-chloroethoxy) methane	Bis(2-chloroethoxy) methane	Hexachloropropene	Hexachloropropene	Acetophenone	Acetophenone	Bis(2-chloroethyl)ether	Bis(2-chloroethyl)ether	Bis(2-chloroisopropyl) ether	Bis(2-chloroisopropyl) ether	4-Bromophenyl phenyl ether	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	4-Chlorophenyl phenyl ether	2,6-dinitrotoluene	2,6-dinitrotoluene	4-Aminobiphenyl	4-Aminobiphenyl	N-Nitrosomorpholine	N-Nitrosomorpholine	N-Nitrosopiperidine	N-Nitrosopiperidine	N-Nitrosopyrrolidine	N-Nitrosopyrrolidine	2-methyl-5-nitroaniline
				mg/L	ug/L	mg/L	ug/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L
EQL				0.001		0.001			0.001																												
ADWG (2011) Health x 10 (Recreational) - Updated June 2025				0.6																																		
ANZG (2018) Marine water (unknown) toxicant DGVs																																						
ANZG (2018) Marine water 95% toxicant DGVs									0.33																													
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																																						
>=2m, <4m																																						
>=4m, <8m																																						
>=8m																																						
PFAS NEMP 3.0 (2025) Interim marine 95% species protection																																						
PFAS NEMP 3.0 (2025) Recreational Water																																						
Field ID	**Well Reference**	**Date**	**Lithology**																																			
Stage 4																																						
BHP8	DP_2011_BHP8	14 Feb 2011	SILTSTONE/SANDSTONE[3]	-	0	-	0	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-
MW521	JBSG_2022_MW521	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW522	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA01	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA01	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01	JBSG_2022_MW523	18 Feb 2022	SHALE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW524	JBSG_2022_MW524	18 Feb 2022	SHALE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW525	JBSG_2022_MW525	18 Feb 2022	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW526	JBSG_2022_MW526	18 Feb 2022	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW530	JBSG_2022_MW530	21 Feb 2022	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15/GW2	HLA_2007_POL_GW2/BH	13 Jun 2007	SILTSTONE	-	-	-	-	-	-	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.004	-	<0.002	-	<0.002	-	<0.002	-	<0.004	-	<0.002
GW6	Coffey_1998_GW6	03 Mar 1998	NATURAL[2]	-	<5	-	<10	<5	-	<5	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
GW6	Coffey_1998_GW6	10 Sep 1998	NATURAL[2]	-	-	-	-	-	-	-	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
GW6	Coffey_1998_GW6	12 Dec 2001	NATURAL[2]	-	-	-	-	-	-	-	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
Stage 5																																						
GW5	Coffey_1998_GW5	24 May 2007	NATURAL[2]	-	-	-	-	-	-	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.004	-	<0.002	-	<0.002	-	<0.002	-	<0.004	-	<0.002
GW5	Coffey_1998_GW5	13 Jun 2007	NATURAL[2]	-	-	-	-	-	-	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.004	-	<0.002	-	<0.002	-	<0.002	-	<0.004	-	<0.002
TRIP1	Coffey_1998_GW5	24 May 2007	NATURAL[2]	-	-	-	-	-	-	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.004	-	<0.002	-	<0.002	-	<0.002	-	<0.004	-	<0.002
GW5D	Coffey_1998_GW5	03 Mar 1998	NATURAL[2]	-	<5	-	<10	<5	-	<5	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
GW5D	Coffey_1998_GW5	10 Sep 1998	NATURAL[2]	-	-	-	-	-	-	-	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
GW5D	Coffey_1998_GW5	12 Dec 2001	NATURAL[2]	-	-	-	-	-	-	-	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
BHP5	DP_2011_BHP5	14 Feb 2011	SILTSTONE/SANDSTONE[3]	-	0	-	0	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
S5-W1	JBSG_2023_S5-W1	16 Jun 2023	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W2	JBSG_2023_S5-W2	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W3	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA_23614	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC23614	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Environmental Standards
ANZG, 2018, ANZG (2018) Marine water 95% toxicant DGVs
ANZG, 2018, ANZG (2018) Marine water 99% toxicant DGVs

Table C - Groundwater Analytical Results Summary Table
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	Semivolatile Organic Compounds (2 of 2)																												Volatile Organic Compounds	Solvents		
	2-methyl-5-nitroaniline	N-Nitrosodiethylamine	N-Nitrosodiethylamine	N-nitrosodi-n-butylamine	N-nitrosodi-n-butylamine	N-nitrosodi-n-propylamine	N-nitrosodi-n-propylamine	1-Naphthylamine	1-Naphthylamine	2-Naphthylamine	2-Naphthylamine	4-(dimethylamino) azobenzene	4-(dimethylamino) azobenzene	Azobenzene	Azobenzene	Diphenylamine	Diphenylamine	Carbazole	Carbazole	Butyl benzyl phthalate	Butyl benzyl phthalate	Dibenzofuran	Dibenzofuran	Isosafrole	Isosafrole	Phenacetin	Phenacetin	1,2-Dibromomethane	Acetone	Isophorone	Isophorone
	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	ug/L	mg/L	mg/L	ug/L
EQL																													0.001		
ADWG (2011) Health x 10 (Recreational) - Updated June 2025																													140		
ANZG (2018) Marine water (unknown) toxicant DGVs																														0.13	
ANZG (2018) Marine water 95% toxicant DGVs																															
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																															
>=2m, <4m																															
>=4m, <8m																															
>=8m																															
PFAS NEMP 3.0 (2025) Interim marine 95% species protection																															
PFAS NEMP 3.0 (2025) Recreational Water																															
Field ID	**Well Reference**	**Date**	**Lithology**																														
Stage 4																															
BHP8	DP_2011_BHP8	14 Feb 2011	SILTSTONE/SANDSTONE[3]	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	0	-	-	0
MW521	JBSG_2022_MW521	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW522	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA01	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA01	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01	JBSG_2022_MW523	18 Feb 2022	SHALE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW524	JBSG_2022_MW524	18 Feb 2022	SHALE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW525	JBSG_2022_MW525	18 Feb 2022	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW526	JBSG_2022_MW526	18 Feb 2022	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW530	JBSG_2022_MW530	21 Feb 2022	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15/GW2	HLA_2007_POL_GW2/BH	13 Jun 2007	SILTSTONE	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	-	-	<0.002	-
GW6	Coffey_1998_GW6	03 Mar 1998	NATURAL[2]	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	<5	-	-	0
GW6	Coffey_1998_GW6	10 Sep 1998	NATURAL[2]	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	-	-	0
GW6	Coffey_1998_GW6	12 Dec 2001	NATURAL[2]	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	-	-	0
Stage 5																																			
GW5	Coffey_1998_GW5	24 May 2007	NATURAL[2]	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	-	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	-	-	<0.002	-
GW5	Coffey_1998_GW5	13 Jun 2007	NATURAL[2]	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	-	-	<0.002	-
TRIP1	Coffey_1998_GW5	24 May 2007	NATURAL[2]	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	-	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	-	-	<0.002	-
GW5D	Coffey_1998_GW5	03 Mar 1998	NATURAL[2]	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	<5	-	-	0
GW5D	Coffey_1998_GW5	10 Sep 1998	NATURAL[2]	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	-	-	0
GW5D	Coffey_1998_GW5	12 Dec 2001	NATURAL[2]	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	-	-	0
BHP5	DP_2011_BHP5	14 Feb 2011	SILTSTONE/SANDSTONE[3]	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	0	-	-	0
S5-W1	JBSG_2023_S5-W1	16 Jun 2023	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W2	JBSG_2023_S5-W2	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W3	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA_23614	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC23614	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Environmental Standards
ANZG, 2018, ANZG (2018) Marine water 95% toxicant DGVs
ANZG, 2018, ANZG (2018) Marine water 99% toxicant DGVs

Table C - Groundwater Analytical Results Summary Table
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

				Polychlorinated Biphenyls														Phenols																			
				Arochlor 1016	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1232	Arochlor 1242	Arochlor 1242	Arochlor 1248	Arochlor 1248	Arochlor 1254	Arochlor 1254	Arochlor 1260	Arochlor 1260	PCBs (Sum of total)	Total PCB	2,3,4,6-tetrachlorophenol	2,3,4,6-tetrachlorophenol	2,4,5-trichlorophenol	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,4-dimethylphenol	2,4-dinitrophenol	2,6-dichlorophenol	2,6-dichlorophenol	2-chlorophenol	2-chlorophenol	2-Methylphenol	2-Methylphenol	2-nitrophenol	2-nitrophenol
				mg/L	ug/L	mg/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L
EQL				0.005		0.005	0.005		0.005		0.005		0.005		0.005		0.005																					
ADWG (2011) Health x 10 (Recreational) - Updated June 2025																							0.2		2							3					
ANZG (2018) Marine water (unknown) toxicant DGVs																																					
ANZG (2018) Marine water 95% toxicant DGVs																																					
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																																					
>=2m, <4m																																					
>=4m, <8m																																					
>=8m																																					
PFAS NEMP 3.0 (2025) Interim marine 95% species protection																																					
PFAS NEMP 3.0 (2025) Recreational Water																																					
Field ID	**Well Reference**	**Date**	**Lithology**																																		
Stage 4																																					
BHP8	DP_2011_BHP8	14 Feb 2011	SILTSTONE/SANDSTONE[3]	-	0	-	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	-	0	-	0	-	0	-	0	-	0
MW521	JBSG_2022_MW521	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW522	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA01	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA01	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01	JBSG_2022_MW523	18 Feb 2022	SHALE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW524	JBSG_2022_MW524	18 Feb 2022	SHALE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW525	JBSG_2022_MW525	18 Feb 2022	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW526	JBSG_2022_MW526	18 Feb 2022	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW530	JBSG_2022_MW530	21 Feb 2022	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15/GW2	HLA_2007_POL_GW2/BH	13 Jun 2007	SILTSTONE	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	<0.005	-	<0.005	-	-	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-
GW6	Coffey_1998_GW6	03 Mar 1998	NATURAL[2]	-	0	-	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	<0	-	<0	-	<0	-	<0	-	-	<0	-	<0	-	0	-	<0
GW6	Coffey_1998_GW6	10 Sep 1998	NATURAL[2]	-	0	-	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	-	0	-	0	-	0	-	0	-	0
GW6	Coffey_1998_GW6	12 Dec 2001	NATURAL[2]	-	0	-	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	-	0	-	0	-	0	-	0	-	0
Stage 5																																					
GW5	Coffey_1998_GW5	24 May 2007	NATURAL[2]	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	<0.005	-	<0.005	-	-	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-
GW5	Coffey_1998_GW5	13 Jun 2007	NATURAL[2]	<0.005	-	-	<0.005	-	<0.005	-	<0.005	-	<0.005	-	<0.005	-	-	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-
TRIP1	Coffey_1998_GW5	24 May 2007	NATURAL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-
GW5D	Coffey_1998_GW5	03 Mar 1998	NATURAL[2]	-	0	-	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	<0	-	<0	-	<0	-	<0	-	-	<0	-	<0	-	0	-	<0	-
GW5D	Coffey_1998_GW5	10 Sep 1998	NATURAL[2]	-	0	-	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	-	0	-	0	-	0	-	0	-
GW5D	Coffey_1998_GW5	12 Dec 2001	NATURAL[2]	-	0	-	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	-	0	-	0	-	0	-	0	-	0
BHP5	DP_2011_BHP5	14 Feb 2011	SILTSTONE/SANDSTONE[3]	-	0	-	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	-	0	-	0	-	0	-	0	-	0
S5-W1	JBSG_2023_S5-W1	16 Jun 2023	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W2	JBSG_2023_S5-W2	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W3	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA_23614	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC23614	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Environmental Standards
ANZG, 2018, ANZG (2018) Marine water 95% toxicant DGVs
ANZG, 2018, ANZG (2018) Marine water 99% toxicant DGVs

Table C - Groundwater Analytical Results Summary Table
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

	Phenols											PFAS																							
	3&4-Methylphenol (m&p-cresol)	3&4-Methylphenol (m&p-cresol)	4,6-Dinitro-2-methylphenol	4-Chloro-3-Methylphenol	4-Chloro-3-Methylphenol	4-methylphenol	4-methylphenol	4-nitrophenol	Cresol Total	Phenol	Phenol	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 (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)
	mg/L	ug/L	mg/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/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	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL												0.02	0.01	0.01	0.01	0.0002	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.05	0.05	0.05	0.05	0.02	0.02	0.001	0.001	0.001	0.0002	0.001
ADWG (2011) Health x 10 (Recreational) - Updated June 2025																5															20		0.7	
ANZG (2018) Marine water (unknown) toxicant DGVs																															.			
ANZG (2018) Marine water 95% toxicant DGVs										0.4																								
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																																		
>=2m, <4m																																		
>=4m, <8m																																		
>=8m																																		
PFAS NEMP 3.0 (2025) Interim marine 95% species protection																220																		
PFAS NEMP 3.0 (2025) Recreational Water																10																	2	
Field ID	**Well Reference**	**Date**	**Lithology**																																
Stage 4																																		
BHP8	DP_2011_BHP8	14 Feb 2011	SILTSTONE/SANDSTONE[3]	-	0	-	-	0	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW521	JBSG_2022_MW521	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	<0.05	0.09	0.13	0.02	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	<0.05	<0.01	<0.01	<0.01	<0.01
MW522	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	<0.05	0.04	0.06	<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	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01
QA01	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	<0.05	0.04	0.08	<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	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01
QA01	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01	JBSG_2022_MW523	18 Feb 2022	SHALE	-	-	-	-	-	-	-	-	-	-	-	<0.02	0.05	0.06	<0.01	<0.01	<0.01	<0.02	<0.02	<0.05	<0.1	<0.5	<0.1	<0.05	<0.1	<0.05	<0.5	<0.02	<0.02	-	<0.01	<0.01	<0.01	<0.01
MW524	JBSG_2022_MW524	18 Feb 2022	SHALE	-	-	-	-	-	-	-	-	-	-	-	<0.05	<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	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01
MW525	JBSG_2022_MW525	18 Feb 2022	FILL	-	-	-	-	-	-	-	-	-	-	-	<0.05	<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	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01
MW526	JBSG_2022_MW526	18 Feb 2022	FILL	-	-	-	-	-	-	-	-	-	-	-	<0.05	<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	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01
MW530	JBSG_2022_MW530	21 Feb 2022	FILL	-	-	-	-	-	-	-	-	-	-	-	<0.05	<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	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01
BH15/GW2	HLA_2007_POL_GW2/BH	13 Jun 2007	SILTSTONE	<0.004	-	-	<0.002	-	-	-	-	-	<0.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW6	Coffey_1998_GW6	03 Mar 1998	NATURAL[2]	-	0	-	-	0	-	<2	-	<2	-	<0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW6	Coffey_1998_GW6	10 Sep 1998	NATURAL[2]	-	0	-	-	0	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW6	Coffey_1998_GW6	12 Dec 2001	NATURAL[2]	-	0	-	-	0	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stage 5																																			
GW5	Coffey_1998_GW5	24 May 2007	NATURAL[2]	<0.004	-	-	<0.002	-	-	-	-	-	<0.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW5	Coffey_1998_GW5	13 Jun 2007	NATURAL[2]	<0.004	-	-	<0.002	-	-	-	-	-	<0.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP1	Coffey_1998_GW5	24 May 2007	NATURAL[2]	<0.004	-	-	<0.002	-	-	-	-	-	<0.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW5D	Coffey_1998_GW5	03 Mar 1998	NATURAL[2]	-	0	-	-	0	-	<2	-	<2	-	<0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW5D	Coffey_1998_GW5	10 Sep 1998	NATURAL[2]	-	0	-	-	0	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW5D	Coffey_1998_GW5	12 Dec 2001	NATURAL[2]	-	0	-	-	0	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP5	DP_2011_BHP5	14 Feb 2011	SILTSTONE/SANDSTONE[3]	-	0	-	-	0	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W1	JBSG_2023_S5-W1	16 Jun 2023	FILL	-	-	-	-	-	-	-	-	-	-	-	<0.05	<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	<0.05	<0.05	<0.001	0.003	<0.001	0.003	<0.001
S5-W2	JBSG_2023_S5-W2	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	<0.05	<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	<0.05	<0.05	<0.001	0.002	<0.001	0.002	<0.001
S5-W3	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	<0.05	<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	<0.05	<0.05	<0.001	<0.001	<0.001	<0.001	<0.001
QA_23614	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.001	-
QC23614	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	<0.05	<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	<0.05	<0.05	<0.001	<0.001	<0.001	0.001	<0.001

Environmental Standards
ANZG, 2018, ANZG (2018) Marine water 95% toxicant DGVs
ANZG, 2018, ANZG (2018) Marine water 99% toxicant DGVs

Table C - Groundwater Analytical Results Summary Table
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

				PFAS														MAH							Miscellaneous Hydrocarbons									
				Perfluorooctanesulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	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 PFAS (WA DER List)	Sum of WA DWER PFAS (n=10)*	Sum of PFAS	Perfluorononanesulfonic acid ion	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Styrene	Total MAH	Bromobenzene	Bromobenzene	Isopropylbenzene	1,2-dibromoethane	Bromomethane	Bromomethane	Cyclohexane	Dibromomethane	Dibromomethane	Iodomethane	4-Methyl-2-pentanone	Methyl Ethyl Ketone
				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	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
EQL				0.0001	0.01	0.001	0.001	0.0004	0.0004	0.001	0.0002	0.001	0.0002	0.05	0.005	0.0002	0.001	0.001	0.001	0.001	0.003	0.001		0.001	0.001	0.001			0.001		0.001	0.001	0.001
ADWG (2011) Health x 10 (Recreational) - Updated June 2025				0.2																0.3				0.01	0.01								
ANZG (2018) Marine water (unknown) toxicant DGVs																																		
ANZG (2018) Marine water 95% toxicant DGVs																							0.03											
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																																		
>=2m, <4m																																		
>=4m, <8m																																		
>=8m																																		
PFAS NEMP 3.0 (2025) Interim marine 95% species protection				0.13																														
PFAS NEMP 3.0 (2025) Recreational Water				2							2																							
Field ID	**Well Reference**	**Date**	**Lithology**																															
Stage 4																																		
BHP8	DP_2011_BHP8	14 Feb 2011	SILTSTONE/SANDSTONE[3]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-	0	-	-	0	-	-	-	-	-	-
MW521	JBSG_2022_MW521	18 Feb 2022	FILL[2]	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	0.01	0.01	0.25	-	0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW522	JBSG_2022_MW522	18 Feb 2022	FILL[2]	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	0.1	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA01	JBSG_2022_MW522	18 Feb 2022	FILL[2]	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	0.12	-	0.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA01	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01	JBSG_2022_MW523	18 Feb 2022	SHALE	<0.01	-	<0.02	<0.01	<0.01	<0.02	<0.02	<0.01	-	<0.01	-	-	0.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW524	JBSG_2022_MW524	18 Feb 2022	SHALE	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW525	JBSG_2022_MW525	18 Feb 2022	FILL	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW526	JBSG_2022_MW526	18 Feb 2022	FILL	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW530	JBSG_2022_MW530	21 Feb 2022	FILL	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15/GW2	HLA_2007_POL_GW2/BH	13 Jun 2007	SILTSTONE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW6	Coffey_1998_GW6	03 Mar 1998	NATURAL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	-	-	-	<50	-	-	<5	-	-	-
GW6	Coffey_1998_GW6	10 Sep 1998	NATURAL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW6	Coffey_1998_GW6	12 Dec 2001	NATURAL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stage 5																																		
GW5	Coffey_1998_GW5	24 May 2007	NATURAL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW5	Coffey_1998_GW5	13 Jun 2007	NATURAL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP1	Coffey_1998_GW5	24 May 2007	NATURAL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW5D	Coffey_1998_GW5	03 Mar 1998	NATURAL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	-	-	-	<50	-	-	<5	-	-	-
GW5D	Coffey_1998_GW5	10 Sep 1998	NATURAL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW5D	Coffey_1998_GW5	12 Dec 2001	NATURAL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP5	DP_2011_BHP5	14 Feb 2011	SILTSTONE/SANDSTONE[3]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-	-	0	-	-	0	-	-	-
S5-W1	JBSG_2023_S5-W1	16 Jun 2023	FILL	0.0059	-	<0.001	<0.001	<0.005	<0.001	<0.001	0.0089	0.0109	0.0079	-	0.0369	0.0419	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W2	JBSG_2023_S5-W2	14 Jun 2023	CLAY	0.0026	-	<0.001	<0.001	<0.005	<0.001	<0.001	0.0046	0.0066	0.0046	-	0.0256	0.0256	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W3	JBSG_2023_S5-W3	14 Jun 2023	CLAY	0.0013	-	<0.001	<0.001	<0.005	<0.001	<0.001	-	-	-	-	-	-	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA_23614	JBSG_2023_S5-W3	14 Jun 2023	CLAY	0.0008	-	-	-	0.0008	<0.0004	-	0.002	-	0.002	-	-	0.0036	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC23614	JBSG_2023_S5-W3	14 Jun 2023	CLAY	0.0026	-	<0.001	<0.001	<0.005	<0.001	<0.001	-	-	-	-	-	-	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Environmental Standards
ANZG, 2018, ANZG (2018) Marine water 95% toxicant DGVs
ANZG, 2018, ANZG (2018) Marine water 99% toxicant DGVs

Table C - Groundwater Analytical Results Summary Table
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

				Chlorinated Benzenes																	Trihalomethanes								Phthalates									
				1,2,3-trichlorobenzene		1,2,3-trichlorobenzene		1,2,4,5-tetrachlorobenzene		1,2,4,5-tetrachlorobenzene		1,2,4-trichlorobenzene		1,2-Dichlorobenzene		1,2-Dichlorobenzene		1,3-dichlorobenzene		1,3-dichlorobenzene		1,4-dichlorobenzene		1,4-dichlorobenzene		Chlorobenzene		Chlorobenzene		Pentachlorobenzene		Pentachlorobenzene		Dibromochloromethane		Dibromochloromethane		Chloroform		Chloroform	
				mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L
EQL														0.001				0.001				0.001				0.001								0.001				0.005	
ADWG (2011) Health x 10 (Recreational) - Updated June 2025														15								0.4				3													
ANZG (2018) Marine water (unknown) toxicant DGVs																																							
ANZG (2018) Marine water 95% toxicant DGVs						0.005				0.08																0.055				0.002								0.77	
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																																							
>=2m, <4m																																							
>=4m, <8m																																							
>=8m																																							
PFAS NEMP 3.0 (2025) Interim marine 95% species protection																																							
PFAS NEMP 3.0 (2025) Recreational Water																																							
Field ID	**Well Reference**	**Date**	**Lithology**																																				
Stage 4																																							
BHP8	DP_2011_BHP8	14 Feb 2011	SILTSTONE/SANDSTONE[3]	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
MW521	JBSG_2022_MW521	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW522	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA01	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA01	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01	JBSG_2022_MW523	18 Feb 2022	SHALE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW524	JBSG_2022_MW524	18 Feb 2022	SHALE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW525	JBSG_2022_MW525	18 Feb 2022	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW526	JBSG_2022_MW526	18 Feb 2022	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW530	JBSG_2022_MW530	21 Feb 2022	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15/GW2	HLA_2007_POL_GW2/BH	13 Jun 2007	SILTSTONE	-	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	-	-	<0.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW6	Coffey_1998_GW6	03 Mar 1998	NATURAL[2]	-	<5	-	0	-	<0	-	<0	-	<0	-	<0	-	<5	-	0	-	<5	-	<5	-	<5	-	<5	-	0	-	0	-	0	-	0	-	0	-	0
GW6	Coffey_1998_GW6	10 Sep 1998	NATURAL[2]	-	-	-	0	-	0	-	0	-	0	-	0	-	-	-	0	-	-	-	-	-	-	-	-	-	0	-	0	-	0	-	0	-	0	-	0
GW6	Coffey_1998_GW6	12 Dec 2001	NATURAL[2]	-	0	-	0	-	0	-	0	-	0	-	0	-	-	-	0	-	-	-	-	-	-	-	-	-	0	-	0	-	0	-	0	-	0	-	0
Stage 5																																							
GW5	Coffey_1998_GW5	24 May 2007	NATURAL[2]	-	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	-	-	<0.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002	-
GW5	Coffey_1998_GW5	13 Jun 2007	NATURAL[2]	-	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	-	-	<0.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.002	-
TRIP1	Coffey_1998_GW5	24 May 2007	NATURAL[2]	-	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	<0.002	-	-	-	<0.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.002	-
GW5D	Coffey_1998_GW5	03 Mar 1998	NATURAL[2]	-	<5	-	0	-	<0	-	<0	-	<0	-	<0	-	<5	-	0	-	<5	-	<5	-	<5	-	<5	-	0	-	0	-	0	-	0	-	0	-	0
GW5D	Coffey_1998_GW5	10 Sep 1998	NATURAL[2]	-	-	-	0	-	0	-	0	-	0	-	0	-	-	-	0	-	-	-	-	-	-	-	-	-	0	-	0	-	0	-	0	-	0	-	0
GW5D	Coffey_1998_GW5	12 Dec 2001	NATURAL[2]	-	0	-	0	-	0	-	0	-	0	-	0	-	-	-	0	-	-	-	-	-	-	-	-	-	0	-	0	-	0	-	0	-	0	-	0
BHP5	DP_2011_BHP5	14 Feb 2011	SILTSTONE/SANDSTONE[3]	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
S5-W1	JBSG_2023_S5-W1	16 Jun 2023	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W2	JBSG_2023_S5-W2	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W3	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA_23614	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC23614	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Environmental Standards
ANZG, 2018, ANZG (2018) Marine water 95% toxicant DGVs
ANZG, 2018, ANZG (2018) Marine water 99% toxicant DGVs

Table C - Groundwater Analytical Results Summary Table
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

				Nitrobenzenes						Nitrotoluenes		Anilines											
				Nitrobenzene	Nitrobenzene	1,4-dinitrobenzene	1,4-dinitrobenzene	Pentachloronitrobenzene	Pentachloronitrobenzene	2,4-dinitrotoluene	2,4-dinitrotoluene	2-methylaniline	2-methylaniline	2-Nitroaniline	2-Nitroaniline	3-Nitroaniline	3-Nitroaniline	4-Chloroaniline	4-Chloroaniline	4-Nitroaniline	4-Nitroaniline	Aniline	Aniline
				mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L
EQL																							
ADWG (2011) Health x 10 (Recreational) - Updated June 2025								0.3															
ANZG (2018) Marine water (unknown) toxicant DGVs																							
ANZG (2018) Marine water 95% toxicant DGVs																							
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																							
>=2m, <4m																							
>=4m, <8m																							
>=8m																							
PFAS NEMP 3.0 (2025) Interim marine 95% species protection																							
PFAS NEMP 3.0 (2025) Recreational Water																							
Field ID	**Well Reference**	**Date**	**Lithology**																				
Stage 4																							
BHP8	DP_2011_BHP8	14 Feb 2011	SILTSTONE/SANDSTONE[3]	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
MW521	JBSG_2022_MW521	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW522	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA01	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA01	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01	JBSG_2022_MW523	18 Feb 2022	SHALE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW524	JBSG_2022_MW524	18 Feb 2022	SHALE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW525	JBSG_2022_MW525	18 Feb 2022	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW526	JBSG_2022_MW526	18 Feb 2022	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW530	JBSG_2022_MW530	21 Feb 2022	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15/GW2	HLA_2007_POL_GW2/BH	13 Jun 2007	SILTSTONE	<0.002	-	<0.002	-	<0.002	-	<0.004	-	<0.002	-	<0.004	-	<0.004	-	<0.002	-	<0.002	-	<0.002	-
GW6	Coffey_1998_GW6	03 Mar 1998	NATURAL[2]	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
GW6	Coffey_1998_GW6	10 Sep 1998	NATURAL[2]	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
GW6	Coffey_1998_GW6	12 Dec 2001	NATURAL[2]	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
Stage 5																							
GW5	Coffey_1998_GW5	24 May 2007	NATURAL[2]	<0.002	-	<0.002	-	<0.002	-	<0.004	-	<0.002	-	<0.004	-	<0.004	-	<0.002	-	<0.002	-	<0.002	-
GW5	Coffey_1998_GW5	13 Jun 2007	NATURAL[2]	<0.002	-	<0.002	-	<0.002	-	<0.004	-	<0.002	-	<0.004	-	<0.004	-	<0.002	-	<0.002	-	<0.002	-
TRIP1	Coffey_1998_GW5	24 May 2007	NATURAL[2]	<0.002	-	<0.002	-	<0.002	-	<0.004	-	<0.002	-	<0.004	-	<0.004	-	<0.002	-	<0.002	-	<0.002	-
GW5D	Coffey_1998_GW5	03 Mar 1998	NATURAL[2]	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
GW5D	Coffey_1998_GW5	10 Sep 1998	NATURAL[2]	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
GW5D	Coffey_1998_GW5	12 Dec 2001	NATURAL[2]	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
BHP5	DP_2011_BHP5	14 Feb 2011	SILTSTONE/SANDSTONE[3]	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0
S5-W1	JBSG_2023_S5-W1	16 Jun 2023	FILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W2	JBSG_2023_S5-W2	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W3	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA_23614	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC23614	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Environmental Standards
ANZG, 2018, ANZG (2018) Marine water 95% toxicant DGVs
ANZG, 2018, ANZG (2018) Marine water 99% toxicant DGVs

Table C - Groundwater Analytical Results Summary Table
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

				Organic Sulfur Compounds	Organic Alcohols		Non-Metallic Inorganics													Major Cations								Major Anions		
				Carbon disulfide	Benzyl Alcohol	Benzyl Alcohol	Nitrate & Nitrite (as N)	Cyanide Total	Ammonia	Ammonia as N	Ammonia as N (filtered)	Fluoride	Fluoride	Nitrate (as N)	Nitrate (as N)	Nitrate (as N) (filtered)	Nitrite (as N)	Nitrite (as N)	Nitrite (as N) (filtered)	Kjeldahl Nitrogen Total	Kjeldahl Nitrogen Total	Calcium	Calcium	Potassium	Potassium	Magnesium	Magnesium	Sodium	Sodium	Phosphorus	Chloride	Sulphate
				mg/L	mg/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	ug/L	mg/L	mg/L	ug/L	mg/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	mg/L	mg/L	mg/L
EQL				0.001						0.005	0.005				0.005	0.005		0.005	0.005												
ADWG (2011) Health x 10 (Recreational) - Updated June 2025								0.8					15		112.9	112.9		9.1	9.1												5,000
ANZG (2018) Marine water (unknown) toxicant DGVs																															
ANZG (2018) Marine water 95% toxicant DGVs								0.004	0.91	0.91	0.91																				
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																															
>=2m, <4m																															
>=4m, <8m																															
>=8m																															
PFAS NEMP 3.0 (2025) Interim marine 95% species protection																															
PFAS NEMP 3.0 (2025) Recreational Water																															
Field ID	**Well Reference**	**Date**	**Lithology**																												
Stage 4																															
BHP8	DP_2011_BHP8	14 Feb 2011	SILTSTONE/SANDSTONE[3]	-	-	0	-	-	0.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW521	JBSG_2022_MW521	18 Feb 2022	FILL[2]	-	-	-	-	-	-	0.47	-	-	-	-	0.13	-	-	<0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW522	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	0.40	-	-	-	-	0.09	-	-	<0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA01	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	0.34	-	-	-	-	0.06	-	-	<0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA01	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01	JBSG_2022_MW523	18 Feb 2022	SHALE	-	-	-	-	-	-	0.24	-	-	-	-	0.03	-	-	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW524	JBSG_2022_MW524	18 Feb 2022	SHALE	-	-	-	-	-	-	0.47	-	-	-	-	<0.02	-	-	<0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW525	JBSG_2022_MW525	18 Feb 2022	FILL	-	-	-	-	-	-	0.27	-	-	-	-	0.62	-	-	<0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW526	JBSG_2022_MW526	18 Feb 2022	FILL	-	-	-	-	-	-	1.7	-	-	-	-	0.10	-	-	<0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW530	JBSG_2022_MW530	21 Feb 2022	FILL	-	-	-	-	-	-	0.36	-	-	-	-	0.16	-	-	<0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15/GW2	HLA_2007_POL_GW2/BH	13 Jun 2007	SILTSTONE	-	<0.002	-	-	-	0.13	-	-	-	0.2	-	1.2	-	-	0.04	-	-	-	-	17	-	4.5	-	36	-	91	-	120	58
GW6	Coffey_1998_GW6	03 Mar 1998	NATURAL[2]	-	-	0	-	-	1.1	-	-	100	-	<10	-	-	<10	-	-	-	-	58,000	-	7,000	-	25,000	-	70,000	-	-	86	13
GW6	Coffey_1998_GW6	10 Sep 1998	NATURAL[2]	-	-	0	-	0.025	0.73	-	-	-	-	<10	-	-	<10	-	-	2,100	-	-	-	-	-	-	-	-	-	-	-	-
GW6	Coffey_1998_GW6	12 Dec 2001	NATURAL[2]	-	-	0	<10	0.014	0.7	-	-	100	-	-	-	-	-	-	-	1,500	-	102,000	-	11,000	-	24,000	-	53,000	-	-	96	2
Stage 5																															
GW5	Coffey_1998_GW5	24 May 2007	NATURAL[2]	-	<0.002	-	-	<0.005	-	5.2	-	-	-0.2	-	<0.01	-	-	0.03	-	-	9.2	-	118	-	37	-	27	-	64	-0.02	67	11
GW5	Coffey_1998_GW5	13 Jun 2007	NATURAL[2]	-	<0.002	-	-	-	1.42	-	-	-	0.1	-	0.12	-	-	<0.01	-	-	-	-	43	-	19	-	17	-	42	-	35	7
TRIP1	Coffey_1998_GW5	24 May 2007	NATURAL[2]	-	<0.002	-	-	<0.004	-	0	-	-	0	-	3.35	-	-	0.025	-	-	7.9	-	56	-	27	-	17	-	39	0	60.5	19
GW5D	Coffey_1998_GW5	03 Mar 1998	NATURAL[2]	-	-	0	-	-	0.27	-	-	300	-	<10	-	-	<10	-	-	-	-	5,000	-	6,000	-	16,000	-	108,000	-	-	75	157
GW5D	Coffey_1998_GW5	10 Sep 1998	NATURAL[2]	-	-	0	-	0.01	0.3	-	-	-	-	<10	-	-	<10	-	-	9,100	-	-	-	-	-	-	-	-	-	-	-	-
GW5D	Coffey_1998_GW5	12 Dec 2001	NATURAL[2]	-	-	0	<10	<5	0.64	-	-	300	-	-	-	-	-	-	-	1,700	-	36,000	-	22,000	-	16,000	-	63,000	-	-	61	62
BHP5	DP_2011_BHP5	14 Feb 2011	SILTSTONE/SANDSTONE[3]	-	-	0	-	-	0.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W1	JBSG_2023_S5-W1	16 Jun 2023	FILL	-	-	-	-	-	-	0.35	-	-	-	-	<0.02	-	-	<0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W2	JBSG_2023_S5-W2	14 Jun 2023	CLAY	-	-	-	-	-	-	0.27	-	-	-	-	<0.02	-	-	<0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W3	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	0.65	-	-	-	-	<0.02	-	-	<0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA_23614	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	-	0.73	-	-	-	-	<0.005	-	-	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC23614	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	0.63	-	-	-	-	<0.02	-	-	<0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Environmental Standards
ANZG, 2018, ANZG (2018) Marine water 95% toxicant DGVs
ANZG, 2018, ANZG (2018) Marine water 99% toxicant DGVs

Table C - Groundwater Analytical Results Summary Table
Project Number: 69329
Project Name: SSDA Stage 3, 4 and 5 , 411 Botany Rd, and 6 Geddes Avenue ,

				Inorganics							Chlorinated Hydrocarbons		Other						
				Alkalinity	Carbonate Alkalinity as CaCO3	Electrical Conductivity (Non Compensated)	Nitrite + Nitrate as N	Phosphate (as P)	Reactive Phosphorus as P	Bicarbonate Alkalinity-mg CaCO3/L	Hexachlorocyclopentadiene	Hexachlorobutadiene	TDS	TSS	pH	Total DDT	Turbidity	Sulfotepp
				mg/L	ug/L	µS/cm	mg/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	pH Units	mg/L	-	mg/L
EQL						1	0.05						10	1			1	
ADWG (2011) Health x 10 (Recreational) - Updated June 2025												0.007						
ANZG (2018) Marine water (unknown) toxicant DGVs																		
ANZG (2018) Marine water 95% toxicant DGVs																		
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																		
>=2m, <4m																		
>=4m, <8m																		
>=8m																		
PFAS NEMP 3.0 (2025) Interim marine 95% species protection																		
PFAS NEMP 3.0 (2025) Recreational Water																		
Field ID	**Well Reference**	**Date**	**Lithology**															
Stage 4																		
BHP8	DP_2011_BHP8	14 Feb 2011	SILTSTONE/SANDSTONE[3]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW521	JBSG_2022_MW521	18 Feb 2022	FILL[2]	-	-	470	-	-	-	-	-	-	-	-	6.2	-	-	-
MW522	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	510	-	-	-	-	-	-	-	-	5.2	-	-	-
QA01	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	580	-	-	-	-	-	-	-	-	5.4	-	-	-
QA01	JBSG_2022_MW522	18 Feb 2022	FILL[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01	JBSG_2022_MW523	18 Feb 2022	SHALE	-	-	630	-	-	-	-	-	-	-	-	5.6	-	-	-
MW524	JBSG_2022_MW524	18 Feb 2022	SHALE	-	-	1,100	-	-	-	-	-	-	-	-	5.9	-	-	-
MW525	JBSG_2022_MW525	18 Feb 2022	FILL	-	-	890	-	-	-	-	-	-	-	-	5.9	-	-	-
MW526	JBSG_2022_MW526	18 Feb 2022	FILL	-	-	3,500	-	-	-	-	-	-	-	-	5.5	-	-	-
MW530	JBSG_2022_MW530	21 Feb 2022	FILL	-	-	690	-	-	-	-	-	-	-	-	6.4	-	-	-
BH15/GW2	HLA_2007_POL_GW2/BH	13 Jun 2007	SILTSTONE	180	-	-	-	-	-	-	<0.004	<0.002	-	-	5.68	<0.004	-	-
GW6	Coffey_1998_GW6	03 Mar 1998	NATURAL[2]	-	-	734	-	-	1.16	45,000	-	-	502	-	8	-	-	-
GW6	Coffey_1998_GW6	10 Sep 1998	NATURAL[2]	-	-	730	-	-	-	-	-	-	464	-	6.8	-	-	-
GW6	Coffey_1998_GW6	12 Dec 2001	NATURAL[2]	-	-	942	-	<10	-	339,000	-	-	606	-	6.32	-	-	-
Stage 5																		
GW5	Coffey_1998_GW5	24 May 2007	NATURAL[2]	440	-	-	-	-	-	-	<0.004	<0.002	-	-	7.6	<0.004	-	<0.002
GW5	Coffey_1998_GW5	13 Jun 2007	NATURAL[2]	210	-	-	-	-	-	-	<0.004	<0.002	-	-	5.9	<0.004	-	-
TRIP1	Coffey_1998_GW5	24 May 2007	NATURAL[2]	-	-	-	-	-	-	-	<0.004	<0.002	-	-	0	<0.004	-	<0.002
GW5D	Coffey_1998_GW5	03 Mar 1998	NATURAL[2]	-	-	683	-	-	6.71	45,000	-	-	436	-	7.52	-	-	-
GW5D	Coffey_1998_GW5	10 Sep 1998	NATURAL[2]	-	-	637	-	-	-	-	-	-	520	-	6.02	-	-	-
GW5D	Coffey_1998_GW5	12 Dec 2001	NATURAL[2]	-	-	748	-	<10	-	172,000	-	-	466	-	6.06	-	-	-
BHP5	DP_2011_BHP5	14 Feb 2011	SILTSTONE/SANDSTONE[3]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W1	JBSG_2023_S5-W1	16 Jun 2023	FILL	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-
S5-W2	JBSG_2023_S5-W2	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S5-W3	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA_23614	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC23614	JBSG_2023_S5-W3	14 Jun 2023	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Environmental Standards
ANZG, 2018, ANZG (2018) Marine water 95% toxicant DGVs
ANZG, 2018, ANZG (2018) Marine water 99% toxicant DGVs

Appendix C Voluntary Planning Agreement (JBS&G 2022a and 2022b)

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Lodger Details

Lodger Code	505966M
Name	LINDSAY TAYLOR LAWYERS
Address	L 9, SE 3, 420 GEORGE ST SYDNEY 2000
Lodger Box	1W
Email	FRANCES.TSE@LINDSAYTAYLORLAWYERS.COM.AU
Reference	LAN20003 - STAG

Land Registry Document Identification

AS716029

STAMP DUTY:

Request (11R)

Jurisdiction NEW SOUTH WALES

Privacy Collection Statement

The information in this form is collected under statutory authority and used for the purpose of maintaining publicly searchable registers and indexes.

Land Title Reference	Part Land Affected?	Land Description
12/1225135	N	

Applicant

LANDCOM

State/Territory government or body

Document Type

Request (11R)

The subscriber requests the Registrar-General to make any necessary recording in the Register to give effect to this instrument, in respect of the land or interest described above.

Attachment

See attached Dealing

Execution

The Certifier has taken reasonable steps to verify the identity of the applicant or his, her or its administrator or attorney.

The Certifier holds a properly completed Client Authorisation for the Conveyancing Transaction including this Registry Instrument or Document.

The Certifier has retained the evidence supporting this Registry Instrument or Document.

The Certifier has taken reasonable steps to ensure that this Registry Instrument or Document is correct and compliant with relevant legislation and any Prescribed Requirement.

Executed on behalf of	LANDCOM
Signer Name	WING YEE TSE
Signer Organisation	LTL PTY LIMITED
Signer Role	PRACTITIONER CERTIFIER
Execution Date	13/12/2022

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Form: 11R
Release: 4·4

REQUEST

New South Wales
Real Property Act 1900

Leave this space clear. Affix additional pages to the top left-hand corner.

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises the Registrar General to collect the information required by this form for the establishment and maintenance of the Real Property Act Register. Section 96B RP Act requires that the Register is made available to any person for search upon payment of a fee, if any.

All Statutory Declarations and evidence that are lodged in support of land dealings will be treated as publicly accessible and will be disclosed to persons upon request.

STAMP DUTY — Insert Duties Assessment No. as issued by Revenue NSW Office.
Duties Assessment No.

(B) **TORRENS TITLE** — 12/1225135

(C) **REGISTERED DEALING**

Number	Torrens Title

(D) **LODGED BY**

Document Collection Box	Name, Address or DX, Telephone, and Customer Account Number if any	CODE
	Lindsay Taylor Lawyers Level 9, Suite 3, 420 George Street, Sydney NSW 2000 Tel: (02) 8235 9700 Email: frances.tse@lindsaytaylorlawyers.com.au Reference: LAN20003	R

(E) **APPLICANT** — Landcom ABN 79 268 260 688

(F) **NATURE OF REQUEST** — Registration of Planning Agreement pursuant to s7.6 Environmental Planning and Assessment Act 1979

(G) **TEXT OF REQUEST**

The Applicant as registered proprietor of the land identified at (B) requests the registration of the Green Square Town Centre - Stage 4 Planning Agreement signed by The Council of the City of Sydney, Landcom and Mirvac Green Square Pty Ltd and dated 30 November 2022. A copy of the Planning Agreement is at Annexure A.

DATE 12 December 2022

(H)

Certified correct for the purposes of the Real Property Act 1900 on behalf of the applicant by the person whose signature appears below.

Signature: Frances

Signatory's name: Wing Yee Tse
Signatory's capacity: solicitor

(I) *This section is to be completed where a notice of sale is required and the relevant data has been forwarded through eNOS.*

The applicant certifies that the eNOS data relevant to this dealing has been submitted and stored under eNOS ID No. _____ Full name: Signature:

** s117 RP Act requires that you must have known the signatory for more than 12 months or have sighted identifying documentation.*

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Annexure A to Request

Planning Agreement

Green Square Town Centre - Stage 4

The Council of the City of Sydney
Council

Mirvac Green Square Pty Ltd
Contractor

Landcom
Land Owner

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Planning Agreement made at Sydney **on** 30 November **2022**

Parties

The Council of the City of Sydney ABN 22 636 550 790 of 456 Kent Street Sydney NSW **(Council)**

Mirvac Green Square Pty Ltd ACN 131 815 079 of Level 28, 200 George Street, Sydney NSW **(Contractor)**

Landcom ABN 79 268 260 688 of Level 14, 60 Station Street, Parramatta NSW **(Land Owner)**

Background

A. The Land Owner owns the Land and has consented to the Contractor carrying out the Development on the Land.

B. The Contractor intends to carry out the Development on the Land.

C. The Contractor and the Land Owner sought a change to an environmental planning instrument (which following gazettal became the LEP) which resulted in the Green Square Town Centre Land being rezoned

D. The LEP commenced on 13 September 2013.

E. Under this Deed the Contractor or the Land Owner Land Owner is to pay monetary contributions, or provide other material public benefits, or a combination of them, in connection with the Development on the Land on the terms and conditions of this Deed.

F. The GI Provisions set out rights and obligations of the Parties relating to the provision of Green Infrastructure by Council with the intention that such Green Infrastructure will be connected to Buildings in the Development on the Land.

Operative provisions

1. Interpretation

1.1. Definitions

The following words have these meanings in this Deed unless the contrary intention appears:

Access Plan means the plan in Schedule 18.

Adjustment Date means each 30 June every year after 20 August 2013.

Appeal means an appeal (including an application for any kind of leave to appeal) in a Court of competent jurisdiction against the decision of a lower court.

Appeal Notice means:

(a) in proceedings in the Court of Appeal:

(i) an application for leave to Appeal;

(ii) a Notice of Intention to Appeal; or

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(iii) if a valid Notice of Intention to Appeal has been lodged, a Notice of Appeal; and

(b) in proceedings in the High Court, an application for Special Leave to Appeal.

Application means an application for any Approval.

Approval means any approvals, consents, certificates, permits, endorsements, licences, conditions or requirements (and any modifications or variations to them) which may be required by Law for the commencement and carrying out of the Contributions Works or the Development generally and includes a Development Consent or other approval under the EP&A Act (or modification of that approval).

Area means those lots on the Land and on the Green Square Town Centre Land shown on Map 2 of Schedule 3 which are not Development Sites.

Australian Drinking Water Guidelines means the publication of the same name by the National Health and Medical Research Council and Natural Resource Management Ministerial Council (2011).

Australian Guidelines for Water Recycling means:

the Australian Guidelines for Water Recycling: Managing Health and Environmental Protection Heritage Council, Natural Resource Management Ministerial Council and Australian Health Ministers Conference (2005); and

Australian Guidelines for Water Recycling: Stormwater Harvesting and Reuse Phase 2 by the Environment Protection and Heritage Council, Natural Resource Management Ministerial Council and Australian Health Ministers Conference (2009).

Authority means any governmental, semi-governmental, administrative, fiscal or judicial body, department, commission, authority, tribunal, agency or entity and includes an accredited certifier accredited under the *Building Professionals Act* 2005.

Bank Bill Rate means the average bid rate for Bills having a tenor of 90 days as displayed on the "BBSY" page of the Reuters Monitor System on the day the relevant payment is due (**Due Date**). However, if the average bid rate is not displayed by 10:30 am on the Due Date or if it is displayed but there is an obvious error in that rate, **Bank Bill Rate** means:

(a) the rate the Council calculates as the average of the bid rates quoted at approximately 10:30 am on that day by each of five or more institutions chosen by the Council which provide rates for display on the "BBSY" page of the Reuters Monitor System for Bills of a 90 day tenor which are accepted by that institution (after excluding the highest and the lowest, or in the case of equality, one of the highest and one of the lowest bid rates); or

(b) where the Council is unable to calculate a rate under paragraph (a) because it is unable to obtain the necessary number of quotes, the rate set by the Council in good faith at approximately 10:30 am on that day, having regard, to the extent possible, to the rates otherwise bid for Bills of a 90 day tenor at or around that time.

The rate calculated or set must be expressed as a percentage rate per annum and be rounded up to the nearest fourth decimal place.

The Council may calculate a rate under paragraph (a) or (b) before 11:00 am on the Due Date, but if the average bid rate appears on the "BBSY" page by 11:00 am and there is no obvious

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error in it, the "BBSY" page rate applies as the **Bank Bill Rate** under this Deed despite any calculation by the Council under paragraph (a) or (b).

Best Industry Practice means the exercise of that degree of professional skill, diligence, and prudence that reasonably would be expected from competent persons performing tasks and functions similar in nature to the Contribution Works and consistent with the Law.

Bills means a bill of exchange as defined in the *Bills of Exchange Act* 1909 (Cth), but does not include a cheque.

Bond means a documentary performance bond which must be denominated in Australian dollars and be an unconditional undertaking with all the following requirements. It must:

(a) be signed and issued by an Australian Prudential Regulation Authority **(APRA)** regulated authorised deposit taking institution or an insurer authorised by APRA to conduct new or renewal insurance business in Australia;

(b) have at all times an investment grade security rating from an industry recognised rating agency of at least:

(i) BBB + [Standard & Poors and Fitch]; or

(ii) Baa 1 [Moodys]; or

(iii) bbb [Bests].

(c) be issued on behalf of the Land Owner;

(d) have no expiry or end date;

(e) have the beneficiary as the Council;

(f) be irrevocable;

(g) state either individually, or in total with other lodged compliant forms of the Bond, the relevant minimum amount required to be lodged as security; and

(h) state the purpose of the deposit required in accordance with this Planning Agreement.

Bond Amounts means the Remediation Bond Amount.

Bond Works means the Remediation Works.

Building means a building proposed to be constructed on the Land (which may be part of a stratum containing other buildings, that structure to be the subject of a deposited plan in respect of which a lot or lots are limited in height, depth or both), but excluding marketing suites and temporary buildings for retail purposes or other buildings which are not part of the LEP and which are not intended to remain on the Land indefinitely.

Business Day means any day except for Saturday or Sunday or a day which is a public holiday in Sydney.

Car Park Land means that part of the Land shown on Map 1 in Schedule 3.

Cash Deposit has the meaning given to that term in paragraph 6 of Schedule 10.

Cash Deposit Account has the meaning given to that term in paragraph 6 of Schedule 10.

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CEO means the Chief Executive Officer or the person acting in that role for each of the Council, the Contractor and the Land Owner.

Certificate of Practical Completion has the meaning given to that term in paragraph 1.17 of Schedule 4.

Certifier means:

(a) such person or persons with the appropriate qualifications and accreditation to provide the required certification and appointed by the Contractor (at its cost);

(b) in the case of the Contribution GI Works only, such person or persons with the appropriate qualifications agreed by the Council and the Contractor to certify the Contribution GI Works and jointly appointed by the Contractor and the Council (at the Contractor's cost); and

(c) in the case of the Remediation Works, the Site Auditor.

The Certifier may be, but is not necessarily, the private certifying authority for the Development.

Community Facility means a library and other community spaces located on Lot 2 in DP1199427.

Completion Date means, in respect of a Building:

(a) the date on which a strata plan is registered in respect of that Building; or

(b) if the Building is not to be immediately the subject of a strata scheme, the date on which the first Occupation Certificate for that Building is issued.

Compliance Certificate means a certificate referred to in section 6.4(e) of the Act.

Connect means connect the relevant Green Infrastructure for a Building to the relevant Contribution GI Works in each Building, and the terms **Connection** and **Connected** will be construed accordingly.

Consent Authority means, in relation to an Application, the Authority having the function to determine the Application.

Consequential Loss means any loss of profit, loss of revenue, loss of business opportunity or goodwill, loss of any contract or any indirect loss.

Construction Certificate means a certificate issued under section 6.4(a) of the EP&A Act.

Construction Cost means the Costs of and directly attributable to the performance of the Bond Works including:

(a) preparation of design and construction drawings for the Bond Works;

(b) cost of materials used or installed (as the case may be) as part of the Bond Works; and

(c) labour, equipment hire and other Costs directly associated with the excavation, Remediation Works,.

Contamination has the same meaning as in the *Contaminated Lands Management Act 1997.*

Contractor's First Notice means the notice to be given by the Contractor under clause 5.1 of the GI Provisions.

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Contractor Remediation Statement has the meaning given to this term in clause 1.28(a)(ii)(B) of Schedule 4.

Contribution Amount means the amounts of a monetary contribution to be paid by the Contractor as described in Table 1 of the Contributions Schedule.

Contribution GI Works means the works to be undertaken by the Contractor as described in Table 4 of the Contributions Schedule.

Contribution GI Works Bond means the Bond to secure:

(a) the Practical Completion of the Contribution GI Works in accordance with Schedule 3.

(b) rectification of any defects and omissions (if any) of the Contribution GI Works during the Defects Liability Period.

Contribution GI Works Bond Amount means $50,000 for each Building as increased by CPI in accordance with paragraph 1.3 of Schedule 10.

Contribution Land means that part of the Land shown in Map 2 – Contribution Land in Schedule 3, such land to be transferred by the Land Owner to the Council in accordance with Table 2 of the Contributions Schedule and Paragraph 1.2 of Schedule 5

Contribution WIK means the works to be undertaken by the Contractor as described in Table 3 of the Contributions Schedule.

Contribution Works means each of the Contribution GI Works and the Contribution WIK.

Contribution Works Portion means each part of the Contribution Works set out separately in Table 3 and Table 4 of the Contributions Schedule.

Contributions means the Contribution Amount, the Contribution Land and the Contribution Works and the provision of material public benefits, all as provided for in the Contributions Schedule of this Deed.

Contributions Schedule means the table and notes included in Schedule 3.

Costs includes all costs, charges and expenses, including those incurred in connection with advisers.

Council Remediation Statement has the meaning given to this term in clause 1.28(a)(ii)(C) of Schedule 4.

Council Road Works means the road works to be carried out by Council, being the road works other than the Contractor Road Works shown on the plan in the Essential Infrastructure DA Plans.

Court means the New South Wales Land and Environment Court or any other court of competent jurisdiction.

CPI means the Sydney Consumer Price Index (All Groups) published by the Commonwealth Statistician, or if that index no longer exists, any similar index which the Council determines in its sole discretion.

Dealing means selling, transferring, assigning, subdividing, mortgaging, charging, encumbering or otherwise dealing with the Land.

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Dedicate means to lodge a registrable instrument at NSW Land Registry Services which, when registered is effective to transfer land to the Council and **Dedication** has a corresponding mean.

Deed means this deed.

Defects Liability Period means

in respect of a Contribution Works Portion, the period of 12 months which commences on the date of Practical Completion of that Contribution Works Portion.

Deliver means design and install in each Building the relevant Green Infrastructure for that Building, and the terms **Delivery** and **Delivered** will be construed accordingly.

Determination Notice means a notice served by a party advising another party that a dispute will be referred to an Independent Expert for determination.

Development means the development described in paragraph 3 of Schedule 2.

Development Application means:

(a) each 'Development Application' as that term is defined in the EP&A Act; and

(b) each Application for a Modification.

Development Consent means:

(a) each 'Development Consent' as that term is defined in the EP&A Act or an approval under Part 5 of the EP&A Act; and

(b) each Modification.

Development Contributions Procedures means the development contribution procedures set out in Schedule 4 and Schedule 5 of this Deed.

Development Program means the development program prepared by the Contractor comprising Schedule 16, as may be updated from time to time, showing the dates by which, or the times within which, the various stages or portions of the Development on the Land are to be carried out or completed, including, but not limited to, the anticipated dates of issue of a Construction Certificate and an Occupation Certificate.

Development Site means each of the development lots on the Land identified in Map 1 of Schedule 3.

DRS means the Development Rights Scheme under the Green Square Infrastructure Strategy (2006), as indexed annually for inflation in accordance with movements in CPI, or any other similar scheme that replaces it.

Encumbrance, in relation to any land, means any:

(a) security for the payment of money or performance of obligations, including a mortgage, charge, lien, pledge, trust, power or title retention;

(b) right, interest or arrangement which has the effect of giving another person a preference, priority or advantage over creditors including any right of set-off;

(c) right that a person (other than the owner) has to remove something from land (known as a profit à prendre), easement, public right of way, restrictive or positive covenant, lease, or licence to use or occupy; or

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(d) third party right or interest or any right arising as a consequence of the enforcement of a judgment,

(e) or any agreement to create any of them or allow them to exist, in respect of that land.

Environmental Consultant means the consultant engaged by the Contractor to prepare the Remediation Action Plan.

EP&A Act means the *Environmental Planning and Assessment Act* 1979 (NSW).

EP&A Regulation means the *Environmental Planning and Assessment Regulation* 2000 (NSW).

Essential Infrastructure DA means the Development Application D/2012/1175 for the construction of infrastructure as approved by the relevant consent authority in accordance with any related Approval.

Essential Infrastructure DA Plans means the plans lodged with Council at the time of execution of this Deed relating to the Essential Infrastructure DA.

Explanatory Note means the explanatory note relating to this Planning Agreement, as required by clause 25E of the EP&A Regulation, being Exhibit A.

GI Connections Specifications means the green infrastructure connection contained in Table 4 of the Contributions Schedule, as amended from time to time in accordance with this Deed or as otherwise agreed between the Parties.

GI Provisions means the provisions contained at Schedule 20 as they apply to the Land .

Green Infrastructure means infrastructure that can be operated on a precinct-scale that comprises:

(a) a non-potable recycled water network, comprising a water treatment plant and pipe network that connects to a non-potable recycled water reticulation system in the Buildings to supply the non-potable recycled water for certain uses including toilet flushing, car washing facilities, laundry (that satisfies the health regulations in respect of the cold water washing machine supply), air conditioning cooling towers and irrigation (**Non-Potable Recycled Water Network**), and

(b) a space cooling system (**Space Cooling System**),

located within public land and parts of the Land and as further particularised in the GI Connections Specifications and the GI Provisions and the requirements in Table 4 of the Contributions Schedule including in respect of air-conditioning refrigerants.

Green Square Town Centre Land means the land comprised in the lots described in paragraph 1 of Schedule 2 and any lots created by Subdivision of those lots (including the Development Site).

Gross Floor Area (GFA) has the same meaning as in the LEP.

GST has the meaning it has in the GST Act.

GST Act means the *A New Tax System (Goods and Services Tax) Act* 1999 (Cth).

GST Amount has the meaning given to that term in clause 14.

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Habitable Space means any floor space capable of being inhabited as a dwelling or for commercial or retail purposes that is completed to a standard where it can be used for the purpose which it was intended.

Independent Expert has the meaning given to that term in paragraph 4 of Schedule 7.

Interest Rate in relation to interest payable on any payment due under this Deed means the rate which is the Bank Bill Rate plus a margin of 2% per annum.

Land means the land described in paragraph 2 of Schedule 2 or any subsequent Subdivision of those lots (including the Development Sites).

Law means:

(a) the common law including principles of equity; and

(b) the requirements of all statutes, rules, ordinances, codes, regulations, proclamations, by-laws or consents by an Authority.

Legal Costs means legal costs and expenses on a full indemnity basis or solicitor and own client basis, whichever is the higher.

Legal Challenge means proceedings in a Court in which a declaration that the LEP or Approval is invalid is sought, and includes, but is not limited to, any proceedings in which such a declaration is sought which are heard on remitter from another Court following an Appeal.

LEP means the *Sydney Local Environmental Plan (Green Square Town Centre) 2013* as amended from time to time.

Material Default means any default which substantially and adversely affects the Council's rights under this Planning Agreement.

Modification means a "modification" of the Development Consent within the meaning of section 4.55 of the EP&A Act.

Non-Potable Recycled Water Access Space has the meaning given to that term in Table 4 of the Contributions Schedule.

Non-Potable Recycled Water Network means the space contained in a Building that will accommodate the infrastructure associated with the Non-Potable Recycled Water System as particularised in the GI Connections Specifications and the GI Provisions.

Occupation Certificate means a certificate referred to in section 6.4(c) of the EP&A Act and which may be interim or final as provided for in section 109C(2) of the EP&A Act (as it was prior to its amendment in 2018).

Original Stage 1-5 Planning Agreement means voluntary planning agreement titled 'Green Square Town Centre – LML Development' made between the Council, Landcom and the Land Owner dated 20 August 2013 (AH968097) and varied by the Deed of Variation of Planning Agreement entered into by those parties on 14 November 2014 (AJ381345).

Other Public Benefits means the other public benefits (other than the provision or delivery of the Contribution Works and the Contribution Lands) to be provided to Council by the Contractor or the Land Owner as required under this Deed as described in Table 5 of the Contributions Schedule.

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Party means a party to this Deed, and includes that party's executors, administrators, successors and permitted assigns, including persons taking by way of novation and, in the case of a trustee, includes a substitutes or an additional trustee.

Permitted Encumbrance means each of:

(a) easements benefitting statutory authorities, encroachments authorised by Approvals and environmental management requirements;

(b) the Relevant Easements; and

(c) any of the following:

(i) an Encumbrance (other than a mortgage, charge, pledge, lien, security interest, title retention, contractual right of set-off, or any other security agreement or arrangement in favour of any person); and

(ii) such other agreement or arrangement,

the Council (acting reasonably) agrees in writing are permitted encumbrances.

Planning Agreement means this Deed.

Practical Completion means in relation to:

(a) each Contribution Works Portion except the Remediation Works, the point of time at which the relevant Certifier is satisfied, acting reasonably, that the whole of that Contribution Works Portion (as the case may be) has been completed and installed in accordance with all relevant Approvals and this Deed (except for minor defects or omissions); and

(b) the Remediation Works, provision to Council of the Contractor Remediation Statement, as defined in paragraph 1.28 of Schedule 4.

Quantity Surveyor means a registered quantity surveyor appointed by the City of Sydney and approved by the Contractor (acting reasonably).

Real Property Act means the *Real Property Act* 1900 (NSW).

Recipient has the meaning given to that term in clause 14.

Recipient Supply has the meaning given to that term in clause 14.

Register means the Torrens title register maintained under the Real Property Act.

Relevant Easements has the meaning given to that term in paragraph 1.1 of Schedule 5.

Relevant Subdivision has the meaning given to that term in paragraph 1.1 of Schedule 5.

Remediation has the same meaning as in the *Contaminated Land Management Act* 1997 No. 140 (NSW).

Remediation Action Plan means the plan approved by a Site Auditor for the Remediation of that part of Land identified as Area 4A, on Map 2 in Schedule 3 which may include by way of adoption and implementation of an environmental management plan, if required for the purpose of obtaining Development Consent.

Remediation Bond means the Second Remediation Bond.

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Remediation Bond Amount means the Second Remediation Bond Amount.

Remediation Works means the Stage 1 Remediation and any other works required to be carried out by the Contractor in accordance with the Contributions Schedule to Remediate the Contributions Land.

Revised Bond Amounts has the meaning given to that term in paragraph 1.3 of Schedule 10.

Rezoning means the rezoning of the Land effected by the commencement of the LEP, as first made.

Second Deed of Variation means the second deed of variation to the Original Stage 1-5 Planning Agreement to remove from the agreement all rights and obligations of the Parties in respect of the Stage 3 Land, the Land and Stage 5 Land.

Second Remediation Bond means the Bond to secure:

(a) the Remediation Works for Area 4A in accordance with Schedule 3 and the Planning Agreement, and

(b) rectification of any defects and omissions (if any) of the Remediation for each of those Areas during the Defects Liability Period.

Second Remediation Bond Amount means $252,253.00 as increased by CPI in accordance with paragraph 1.3 of Schedule 10 in respect of the Remediation Works for Area 4A:

Site Auditor has the same meaning as in *Contaminated Land Management Act* 1997 No 140 (NSW).

Sites means that part of the Land shown and labelled on Map 1 - Site Identification Plan in Schedule 3.

Stage 1 Remediation has the meaning given to this term in clause 1.28 of Schedule 4.

Stage 2 Remediation has the meaning given to this term in clause 1.28 of Schedule 4.

Stage 3 Land means Lot 6 in DP1199427 and any lot created by Subdivision of that lot (including the relevant Development Sites).

Stage 5 Land means the part of the Green Square Town Centre Land comprised in the part of Lot 1 in DP1199427 (being folio identifier 1/1199427) generally shown as '11' in the Stages 4 and 5 Land Plan in this Schedule, and any lot created by Subdivision of that lot (including the relevant Development Sites).

Stage 3 Planning Agreement means the planning agreement entered into between the Council and Mirvac Green Square Pty Ltd in respect of the Stage 3 Land dated on or around the date of this Deed.

Stage 5 Planning Agreement means the planning agreement entered into between the Council and Mirvac Green Square Pty Ltd in respect of the Stage 5 Land dated on or around the date of this Deed.

Subdivision has the meaning given to "subdivision of land" in section 6.2 of the EP&A Act and **Subdivide** has a similar meaning.

Subdivision Certificate has the same meaning as in the EP&A Act.

Supplier has the meaning given to that term in clause 14.

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Suspension Expiry Date means the date on which the Suspension Period ends.

Suspension Period means the period of time from and including the date on which a document initiating a Legal Challenge has been served on the Council and the Land Owner and ending on:

(a) subject to paragraphs (b) and (c), the date on which:

(i) the Legal Challenge is discontinued;

(ii) final orders (apart from any orders as to costs) are made in the Legal Challenge; or

(iii) for any other reason, the Legal Challenge no longer includes an application for a declaration that the LEP, Planning Agreement or Approval is invalid;

(iv) whichever is the earlier;

(b) subject to paragraph (c), if an Appeal Notice is filed and served in connection with final orders in the Legal Challenge or an Appeal from the Legal Challenge (apart from any orders as to costs), the date on which:

(i) the Appeal is discontinued;

(ii) final orders (apart from any orders as to costs) are made in the Appeal; or

(iii) for any other reason, the Appeal no longer includes an appeal in respect of a Court decision regarding the validity of the LEP, Planning Agreement or Approval whichever is earlier,

unless the orders in the Appeal require the Legal Challenge to be remitted to another Court in relation to the validity of the LEP, in which case paragraph (a) re-applies; or

(c) the date which is 15 Business Days after the date on which the period of time allowed for filing an Appeal Notice described in paragraph (b) has expired, if no valid Appeal Notice has been filed and served by that first-mentioned date.

For the avoidance of doubt, the Suspension Period continues if paragraph (b) applies.

Taxes means taxes, levies, imposts, deductions, charges and duties (including stamp and transaction duties) excluding GST together with any related interest, penalties, fines and expenses in connection with them, except if imposed on, or calculated having regard to, net income of a person.

1.2. General

In this Deed:

(a) headings are for convenience only and do not affect interpretation;

and unless the context indicates a contrary intention:

(b) "person" includes an individual, the estate of an individual, a corporation, an authority, an association or a joint venture (whether incorporated or unincorporated), a partnership and a trust;

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(c) a reference to a document (including this Deed) is to that document as updated, varied, novated, ratified or replaced from time to time;

(d) a reference to a statute includes its delegated legislation and a reference to a statute or delegated legislation or a provision of either includes consolidations, amendments, re-enactments, replacement and substitutions;

(e) a word importing the singular includes the plural (and vice versa), and a word indicating a gender includes every other gender;

(f) a reference to a party, clause, schedule, exhibit, attachment or annexure is a reference to a party, clause, schedule, exhibit, attachment or annexure to or of this Deed, and a reference to this Deed includes all schedules, exhibits, attachments and annexures to it;

(g) a reference to a schedule, exhibit, attachment or annexure to a clause, paragraph section, schedule, exhibit, attachment or annexure is a reference to a clause, paragraph, section, schedule, exhibit, attachment or annexure to or of that schedule, exhibit, attachment or annexure;

(h) if a word or phrase is given a defined meaning, any other part of speech or grammatical form of that word or phrase has a corresponding meaning;

(i) "includes" or "such as" in any form is not a word of limitation;

(j) a reference to "$" or "dollar" is to Australian currency;

(k) "contractor" include suppliers and consultants;

(l) "construction" includes manufacture and installation;

(m) no rule of construction applies to the disadvantage of a party because that party was responsible for the preparation of this Deed; and

(n) any capitalised term used, but not defined in this Deed, will have the meaning ascribed to it under, and by virtue of, the EP&A Act.

2. Planning Agreement

2.1 Operation of Planning Agreement

(a) This Deed operates on and from the date that this Deed, the Stage 5 Planning Agreement, the Stage 3 Planning Agreement and the Second Deed of Variation to the Original Stages 1-5 Planning Agreement are fully executed. The Contractor and the Land Owner shall have no obligations whatsoever under this Deed until that time.

(b) The Council must notify the Land Owner and the Contractor immediately after the Council executes this Planning Agreement and promptly provide the Land Owner and the Contractor with this Deed as executed by the Council.

2.2 Planning agreement under the EP&A Act

This Deed constitutes a planning agreement within the meaning of section 7.4 of the EP&A Act.

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2.3 Application of the Planning Agreement

This Deed applies to:

(a) the Land; and

(b) the Development on the Land.

3. Development Contributions

3.1 Payment or Delivery of Contributions

The Parties agree that:

(a) the Contractor must (at its Cost and risk) pay the Contribution Amounts to the Council in accordance with the Contributions Schedule;

(b) the Contractor must (at its Cost and risk) undertake the Contribution Works in accordance with the Contributions Schedule and Schedule 4 (as applicable);

(c) the Land Owner must (at its Cost and risk) transfer the Contribution Land in accordance with the Contributions Schedule and Schedule 5 to the Council (or such other person as the Council may reasonably direct); and

(d) the Land Owner and/or the Contractor (as applicable) must (at its Cost and risk) provide the Other Public Benefits in accordance with the Contributions Schedule,

and otherwise in accordance with the provisions of this Deed.

4. Application of s7.11, 7.12 and 7.24 of the EP&A Act

(a) The application of sections 7.12 and 7.12 of the EP&A Act are excluded to the extent stated in Schedule 1.

(b) The Council acknowledges that:

(i) contributions under the DRS are excluded to the extent that they apply to the Development carried out on the Land;

(ii) all things necessary to satisfy the requirements of the DRS have been done and nothing further is required to be done to satisfy the requirements of the DRS in connection with the Development on the Land; and

(iii) sections 7.11, 7.12 an d 7.24 of EP&A Act do not apply to the DRS;

(c) The Contractor and the Land Owner acknowledge that any affordable housing contributions under any relevant planning instrument are not excluded.

(d) The Council will do all things reasonably necessary to exclude the application of the DRS to the Development and ensure that the Contractor and Land Owner are not liable to satisfy any further requirements of the DRS in connection with the Development

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5. Caveat

The Land Owner acknowledges and agrees that:

(a) when this Deed is executed by the Contractor and the Land Owner (whether or not the Council has executed this Deed), the Council is deemed to have acquired, and the Land Owner is deemed to have granted, an equitable estate and interest in the Land for the purposes of section 74F(1) of the Real Property Act and consequently the Council has a sufficient interest in the Land in respect of which to lodge with the NSW Land Registry Services a caveat notifying that interest; and

(b) subject to clause 7, the Council may lodge a caveat on the Land to prevent any Dealing with the Land or any part of it in a manner which is inconsistent with this Deed and the Land Owner will not object to and consents to the Council lodging a caveat in the relevant folio of the Register for the Land nor will it seek to remove any caveat lodged by the Council provided the caveat does not prevent or delay the registration of this Deed in accordance with clause 6.

6. Registration of this Deed

6.1 Ownership of the Land

The Land Owner represents and warrants that it is the legal and beneficial owner of the parts of the Land not dedicated or already developed or transferred to Council or sold as contemplated by this Deed.

6.2 Registration on title

The Land Owner agrees to procure as soon as practicable the registration of this Deed in the relevant folio of the Register for the Land in accordance with section 7.6 of the EP&A Act and in accordance with Schedule 8.

7. Release and Discharge

The Council agrees to release and discharge this Deed and remove any caveat lodged by the Council pursuant to clause 5 on the release and discharge terms contained in Schedule 9.

8. Breaches to be rectified

If the Council considers that the Land Owner or the Contractor has defaulted on the performance of any of their respective obligations under this Deed, then the Council may give written notice to the Land Owner and the Contractor which:

(a) identifies the nature of the breach; and

(b) provides at least 20 Business Days (except in the case of an emergency or where there is an issue of public safety where less time may be specified) with which the Land Owner or the Contractor (as applicable) must rectify that breach and what action must be taken to rectify that breach.

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9. Additional Security

The Contractor has agreed to provide security (in the form of Bonds) to the Council for performance of its obligations under this Deed on the terms and conditions of Schedule 10.

10. Assignment and other dealings

The Parties agree that provisions of Schedule 11 apply in relation to any proposed assignment or dealing in relation to the Land (or any part of it) or of a Party's interest in this Deed.

11. Review of Deed

The Parties may agree to review this Deed. Any review or modification will be conducted in the circumstances and in the manner determined by the Parties.

12. Dispute resolution

The Parties agree that any disputes under or in relation to this Deed will be resolved in accordance with the procedures set out in Schedule 7.

13. Overdue payments

13.1 Interest on overdue money

The Contractor and the Land Owner each agree to pay interest to the Council on any amount payable by it under this Deed from when it becomes due for payment, during the period that it remains unpaid, on demand or at times determined by the Council, calculated on daily balances. The rate to be applied to each daily balance is the Interest Rate.

13.2 Compounding

Interest which is not paid when due for payment may be capitalised by the Council on the first day of each month. Interest is payable on capitalised interest at the rate and in the manner referred to in this clause 13.

13.3 Interest on liability merged in judgment or order

(a) If a liability under this Deed becomes merged in a judgment or order, then the Contractor or the Land Owner (as applicable) agree to pay interest to the Council on the amount of that liability as an independent obligation. This interest accrues from the date the liability becomes due for payment both before and after the judgment or order until it is paid, at a rate that is the higher of the rate payable under the judgment or order and the rate referred to in this clause 13.

(b) For the avoidance of doubt, if a liability under this Deed becomes merged in a judgment or order then the Contractor or the Land Owner (as applicable) will only be required to pay either interest payable under the judgment or order or interest calculated under this clause 13 not both.

14. GST

14.1 Interpretation

(a) Except where the context suggests otherwise, terms used in this clause 14 have the meanings given to those terms by the GST Act.

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(b) Any part of a supply that is treated as a separate supply for GST purposes (including attributing GST payable to tax periods) will be treated as a separate supply for the purposes of this clause 14.

(c) A reference to something done (including a supply made) by a party includes a reference to something done by any entity through which that party acts.

14.2 Reimbursements

Any payment or reimbursement required to be made under this Deed that is calculated by reference to a cost, expense, or other amount paid or incurred will be limited to the total cost, expense or amount less the amount of any input tax credit to which an entity is entitled for the acquisition to which the cost, expense or amount relates.

14.3 Additional amount of GST payable

Subject to clause 14.5, if GST becomes payable on any supply made by a party (**Supplier**) under or in connection with this Deed:

(a) any amount payable or consideration to be provided under any provision of this Deed (other than this clause 14), for that supply is exclusive of GST;

(b) any party (**Recipient**) that is required to provide consideration to the Supplier for that supply must pay an additional amount to the Supplier equal to the amount of the GST payable on that supply (**GST Amount**), and:

(i) where that GST Amount is payable by the Council, the GST Amount will be limited to the amount of the input tax credit (if any) to which the Council (or the representative member of any GST group of which the Council, in any capacity, is a member) is entitled in relation to the Council's acquisition of that supply and is payable within 5 Business Days after the Council (or the representative member of any GST group of which the Council, in any capacity, is a member) has received the benefit of that input tax credit; and

(ii) in any other case, the GST Amount is payable at the same time as any other consideration is to be first provided for that supply; and

(c) the Supplier must provide a tax invoice to the Recipient for that supply, no later than the time at which the GST Amount for that supply is to be paid in accordance with clause 14.3(b) (or the time at which such GST Amount would have been payable in accordance with clause 14.3(b) but for the operation of clause 14.5(a).

14.4 Variation

(a) If the GST Amount properly payable in relation to a supply (as determined in accordance with clause 14.3 and clause 14.5), varies from the additional amount paid by the Recipient under clause 14.3, then the Supplier will provide a corresponding refund or credit to, or will be entitled to receive the amount of that variation from, the Recipient. Any payment, credit or refund under this clause 14.4(a) is deemed to be a payment, credit or refund of the GST Amount payable under clause 14.3.

(b) The Supplier must issue an adjustment note to the Recipient in respect of any adjustment event occurring in relation to a supply made under or in connection with this Deed as soon as reasonably practicable after the Supplier becomes aware of the adjustment event.

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14.5 Exchange of non-monetary consideration

(a) To the extent that the consideration provided for the Supplier's taxable supply to which clause 14.3 applies is a taxable supply made by the Recipient (**Recipient Supply**), the GST Amount that would be otherwise be payable by the Recipient to the Supplier in accordance with clause 14.3 shall be reduced by the amount of GST payable by the Recipient on the Recipient Supply.

(b) The Recipient must issue to the Supplier an invoice for any Recipient Supply on or before the time at which the Recipient must pay the GST Amount in accordance with clause 14.3 (or the time at which such GST Amount would have been payable in accordance with clause 14.3 but for the operation of clause 14.5(a)).

14.6 No merger

This clause will not merge on completion or termination of this Deed.

15. Explanatory Note

The Explanatory Note must not be used to assist in construing this Deed.

16. Notices to Parties

16.1 Form

Any notice, consent, information, application or request that must or may be given or made to a party under this Deed is only given or made if it is in writing and delivered or posted to that party at its address set out below or faxed to that party at its fax number set out below:

Council

Name:	The Council of the City of Sydney
Address:	456 Kent Street Sydney NSW 2000
Fax:	02 9265 9111
For the attention of:	General Counsel (currently Kirsten Morrin) and with a copy to the Chief Operating Officer (currently Kim Woodbury)

Contractor

Name:	Mirvac Square Pty Ltd
Address:	Level 28, 200 George Street, Sydney NSW 2000
Fax:	(02) 9080 8111
For the attention of:	The Green Square Project Director; and

Land Owner

Name:	Landcom
Address:	Level 14, 60 Station Street, Parramatta NSW 2150
Fax:	(02) 9841 8777
For the attention of:	The Managing Director

16.2 Change of address

If a Party gives another Party 3 Business Days' notice of a change of its address or fax number, any notice, consent, information, application, or request is only given or made by that other Party if it is delivered, posted or faxed to the latest address or fax number.

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16.3 Receipt

Any notice, consent, information, application or request is to be treated as given or made at the following time:

(a) if it is delivered, when it is left at the relevant address;

(b) if it is sent by post, 2 Business Days after it is posted; and

(c) if it is sent by fax, as soon as the sender receives from the sender's fax machine a report of an error free transmission to the correct fax number.

16.4 Receipt - next Business Day

If any notice, consent, information, application or request is delivered, or an error free transmission report in relation to it is received, on a day that is not a Business Day, after 5pm on that day in the place of the party to whom it is sent, it is to be treated as having been given or made at the beginning of the next Business Day.

16.5 Notices to Land Owner and Contractor

Unless a notice is addressed to both the Contractor and the Land Owner, then:

(a) a copy of any notice addressed to the Contractor must be given to the Land Owner; and

(b) a copy of any notice addressed fo Land Owner must be given to the Contractor.

17. Schedules and Annexures to this Deed

The Parties agree:

(a) that all the Schedules and Annexures form part of this Deed;

(b) to comply with the provisions of those Schedules and Annexures; and

(c) the Exhibits do not form part of this Deed and are for information purposes only.

18. Not used

19. General provisions

The Parties agree to the miscellaneous and general provisions set out in Schedule 12.

20. Land Owner's additional obligations under this Deed

In the event that the Contractor's rights to develop the Land pursuant to the legal arrangements the Contractor has with the Land Owner as at the date of this Deed are terminated, then on and from the date of such termination, the Land Owner agrees to perform all the Contractor's obligations under this Deed in accordance with this Deed as if it were the Contractor for the purposes of this Deed, until such time as alternative arrangements are agreed (and legally documented) between the Council and the Land Owner in respect of a new contractor potentially performing some or all of those obligations.

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21. Obligations under this Planning Agreement

(a) Subject to paragraphs (e) and (h) in this clause 21, where a Legal Challenge is commenced the Parties' obligations under this Deed are immediately suspended and neither the Land Owner nor the Contractor shall have any obligation to make any Contributions under this Agreement until the expiration of the Suspension Period or where paragraph (e) of this clause 21 applies.

(b) Subject to paragraph (c) in this clause 21, where any Legal Challenge is commenced and/or where the Court declares or orders the LEP or any Approval to be invalid, the Parties agree to:

(i) meet, no later than 5 Business Days after the date of service of commencement of the Legal Challenge and after any declaration or order that the LEP, the Planning Agreement or Approval (as appropriate) is invalid, to discuss in good faith:

A. the suspension of the Parties' rights and obligations under this Deed; and

B. their intentions in relation to that declaration or order, including, without limitation, any intention to Appeal that declaration or order; and

(ii) consult regularly with the other Party in relation to any Legal Challenge or Appeal and must respond within a reasonable period to each other's questions, queries and enquiries and generally keep each other informed regarding the progress of any such Legal Challenge or Appeal.

(c) The Parties will not be required to meet, or consult, with the other Parties pursuant to paragraph (b) of this clause 21 in circumstances where any of the Parties receives legal advice that it should not so meet or consult with the other Party in connection with any such Legal Challenge or Appeal.

(d) The Parties agree that any discussions held between the Parties under this clause 21 are confidential and that a common interest between them exists for the purposes of legal professional privilege in connection with those discussions.

(e) Notwithstanding paragraph (a), the Contractor and the Land Owner may elect at their Cost and risk to proceed with the Development and continue to comply with their obligations under this Deed unless and until such time as the LEP, the Planning Agreement or Approval (as appropriate) is declared invalid.

(f) Where paragraph (e) applies, the Council agrees to cooperate in good faith with the Contractor and the Land Owner to progress the Development during the Suspension Period.

(g) Where the Council suspends the roll-out of the whole or any part of the Green Infrastructure and the Council Road Works during the Suspension Period, but the Contractor and the Land Owner wish to continue with the Development, the Contractor and/or the Land Owner may elect at their Cost and risk to step-in to complete certain parts of the Green Infrastructure and the Council Road Works for which the Council is responsible with the Council's consent, on terms to be agreed between the Parties in writing.

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(h) The Parties agree that if this clause 21 applies and there is a suspension of the Parties' obligations under this Deed, where necessary, any Works that have been commenced, but not completed, will be left in a state that is safe to the public before Works cease notwithstanding the commencement of the Suspension Period.

(i) If this Deed is terminated as the result of any Legal Challenge or Appeal, the Council agrees to reimburse the Contractor and the Land Owner any Contribution Amount paid under this Deed and the Parties will meet in accordance with paragraph (b) of this clause 21 to discuss the return of the Bonds and any matters that may need to be addressed as a result of the commencement of the Contribution Works

(j) If the LEP is declared invalid, the Contractor and the Land Owner shall not have any obligation to make any of the Contributions under this Deed and, on resolution of the matters in paragraph (i) of this clause 21, this Deed will terminate.

(k) If an Approval is declared invalid, the Parties will meet in accordance with clause 21(b) of this Deed to discuss their respective rights and obligations under this Deed as a consequence of that determination.

(l) If the Contractor and the Land Owner elect to proceed with the Development notwithstanding paragraphs (a), (f) and (g), then the Contractor and the Land Owner are liable for and indemnify the Council against all liability, loss, Costs and expenses (including Legal Costs) directly arising from or incurred in connection with the Contractor and the Land Owner proceeding with the Development despite the Legal Challenge and the operation of paragraphs (a), (f) and (g).

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Schedule 1 - Section 7.4 Requirements

The Parties acknowledge and agree that the table set out below provides for certain terms, conditions and procedures for the purpose of the Planning Agreement complying with the EP&A Act.

Requirement under the EP&A Act	This Planning Agreement
Planning instrument and/or development application - (Section 7.4(1)) The Contractor has:	
(a) sought a change to an environmental planning instrument.	(a) No
(b) made, or proposes to make, a Development Application.	(b) Yes
(c) entered into an agreement with, or is otherwise associated with, a person, to whom paragraph (a) or (b) applies.	(c) No
Description of land to which this Deed applies - (Section 7.4(3)(a))	The Land described in paragraph 2 of Schedule 2.
Description of change to the environmental planning instrument or the development to which this Deed applies - (Section 7.4(3)(b)) Describe:	
(a) the proposed change to the environment plan to which this Deed applies; **OR**	(a) N/A
(b) the development to which this Deed applies.	(b) The Development described in paragraph 2 of Schedule 2.
The scope, timing and manner of delivery of contribution required by this planning agreement - (Section 7.4(3)(c))	As set out in the Contributions Schedule
Applicability of Section 7.11 of the EP&A Act - (Section 7.4(3)(d))	The application of section 7.11 of the EP&A Act is excluded in respect of the Development.
Applicability of Section 7.12 of the EP&A Act - (Section 7.4(3)(d))	The application of section 7.12 of the EP&A Act is excluded in respect of the Development.
Applicability of Section 7.24 of the EP&A Act - (Section 7.4(3)(d))	The application of section 7.24 of the EP&A Act is not excluded in respect of the Development.

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Requirement under the EP&A Act	This Planning Agreement
Consideration of benefits under this Deed if section 7.11 applies - (Section 7.4(3)(e)) Are the benefits under this Deed to be taken into consideration if Section 7.11 of the EP&A Act is not excluded?	Not applicable
Mechanism for Dispute resolution - (Section 7.4(3)(f)) This Deed provides a mechanism for the resolution of disputes under the agreement?	Refer to clause 12 and Schedule 7.
Enforcement of this Deed (Section 7.4(3)(g) and section 7.6) This Deed provides for enforcement by a suitable means in the event of a breach.	Refer to clauses 5 6, 8, 9 and 13 and Schedule 5 and Schedule 10
Registration of this Deed The Parties agree that this Deed will be registered in accordance with clause 6.	Yes
No obligation to grant consent or exercise functions - (Section 7.4(9)) The Parties acknowledge that this Deed does not impose an obligation on a planning authority to grant a Development Consent, or to exercise any function under the EP&A Act in relation to a change to an environmental planning instrument.	Refer to paragraph 1.8 of Schedule 13.

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Schedule 2 - Description of the Land and the Development

1. Green Square Town Centre Land

Lots 1, 4, 5, 6 and 7 in DP 1199427 in the Green Square Town Centre Land Plan in this Schedule.

2. Land

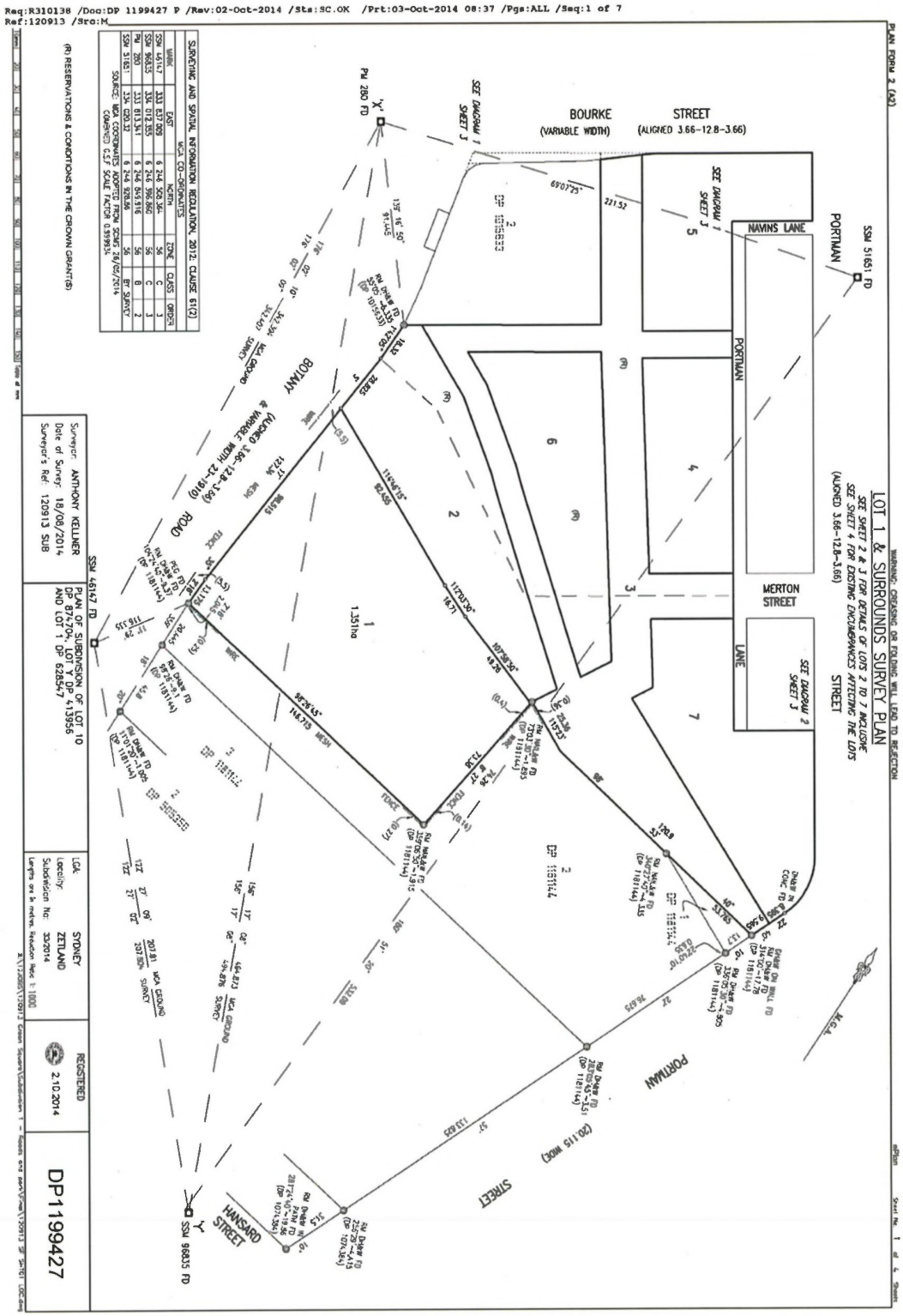
Land means the part of the Green Square Town Centre Land comprised in the part of Lot 1 in DP1199427 (being folio identifier 1/1199427) generally shown as '12' in the Stages 4 and 5 Land Plan in this Schedule, and any lot created by Subdivision of that land (including the Development Sites).

3. Development

Development means the development and use of the Land as permitted by the LEP, including but not limited to subdivision, low, medium and high density residential housing, commercial development, retail development, car parking, roads, utilities, associated services and open space.

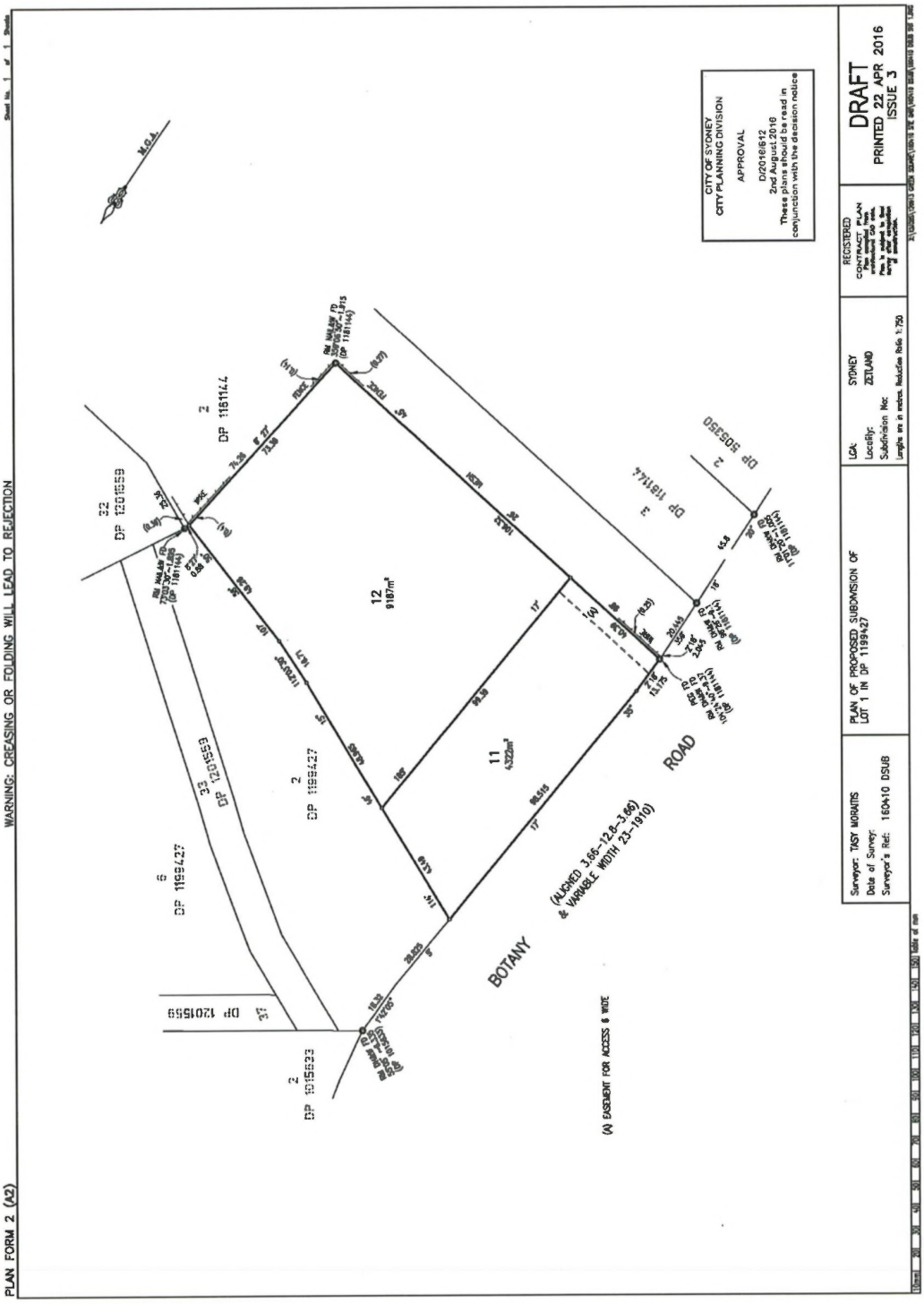
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4. Green Square Town Centre Land Plan



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5. Stages 4 and 5 Land Plan



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Schedule 3 - Contributions Schedule

1.1 Contributions Tables

Table 1 - Contribution Amounts

Contribution		Date Contribution Amount is payable
1.	Monetary Contribution of $7,966,248.43 as of 30 June 2012 and indexed in accordance with paragraph 1.2 below	To be paid prior to the date on which a Construction Certificate is issued in respect of works required to be completed to create any part of Habitable Space on the Development Site 8C.
2.	Monetary Contribution of $2,670,411.44 as of 30 June 2012 and indexed in accordance with paragraph 1.2 below	To be paid prior to the date on which a Construction Certificate is issued in respect of works required to be completed to create any part of Habitable Space on the Development Site 8D.
3.	Monetary Contribution of $8,673,623.80 as of 30 June 2012 and indexed in accordance with paragraph 1.2 below	To be paid prior to the date on which a Construction Certificate is issued in respect of works required to be completed to create any part of Habitable Space on the Development Site 19A.
4.	Monetary Contribution of $3,262,139.29 as of 30 June 2012 and indexed in accordance with paragraph 1.2 below	To be paid prior to the date on which a Construction Certificate is issued in respect of works required to be completed to create any part of Habitable Space on the Development Site 19B.

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Table 2 - Contribution Land

Contribution		Date Contribution Land is to be dedicated as public road or transferred to Council for future dedication by Council as public road
1.	**The Contribution Land for Roads – Area 4A** The transfer of the fee simple in stratum of part of the Land, being land marked as Area 4A (approximately 2,809.8 square metres) on Map 2 – Contribution Land in Schedule 3, to the Council, unlimited in height and to a depth determined by the Contractor, but that depth must be at least 1.5 metres below the finished surface design level as detailed in the Essential Infrastructure DA Plans. The Contractor may request that works to construct the road and footpath on Area 4A be carried out as Contribution WIK at the Contractor's risk and the definition of Construction Cost be amended as necessary to apply to those works. Any offsets to be provided are to be agreed between the Council and the Contractor having regard to the Construction Cost of the works.	Each section of the road is to be transferred (or otherwise dedicated, where agreed by all parties) 9 months prior to the date on which the Occupation Certificate is issued for a Building which includes Habitable Space and which Building is directly adjacent to that section of road.

The areas set out in Table 2 – Contribution Land are indicative only and are subject to survey.

The timeframes and dates set out in the second column of Table 2 – Contribution Land are subject to the extension of time regime in clause 1.3 of this Schedule 3.

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Table 3 - Contribution WIK

Contribution		Date Contribution Works are to be delivered/Practically Completed
1	**Remediation of lands to be dedicated or transferred** The Land Owner must ensure that, prior to a part of the Contribution Land being transferred to the Council in accordance with dates in Table 2, that part of the Contribution Land is to be remediated so that Council is then able to carry out the Council Road Works (including the installation of services and other works required to complete the Council Road Works) on that part of the Contribution Land. Suitably remediated or uncontaminated select sub-grade(- 40mm gravel) material (compacted to 97% of the modified compaction standards) or material required by the Remediation Action Plan or as otherwise agreed by the Parties must be provided at least 150mm thick with an identification marker fabric across the whole area to the indicated levels below: a. Area 4A: 700 mm below design surface levels as indicated in the Essential Infrastructure DA Plans and with any relevant environmental planning instruments and approvals and all structures, footings, redundant underground services, culverts and kerbs removed to that depth; The Contractor must remove and Remediate any underground storage tanks from the Contribution Lands that are identified in the Remediation Action Plan and required to be removed from the Contribution Lands under the Remediation Action Plan or as otherwise uncovered by the Contractor irrespective of the depth at which those underground storage tanks are located. If there is a risk of pollutants migrating from the Contribution Land below the minimum depth and interim cap level, then the Contractor must remediate below that level to remove that risk. The Contractor will engage a site auditor to prepare the Contractor Remediation Statement in accordance with the Remediation Action Plan and anything else required by law, including under the *Contaminated Land Management Act*. The Contractor must supply and install a security fence adjacent to the Contribution Lands prior to transfer to the Council to prevent public access on to those parts of the Site which have not been Remediated.	To be Practically Completed and the Contractor Remediation Statement provided to Council prior to the date the part of the Contribution Land is to be dedicated or transferred as listed in Table 2 – Contribution Lands of this Schedule.

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Table 4 - Green Infrastructure Contribution Works

Contribution		Date Contribution is to be delivered/Practically Completed
1.	**Non-Potable Recycled Water Network** The Contractor must design and construct all Buildings to provide a dual reticulation water system for water consumption. The system must be capable of fully connecting to the Non-Potable Recycled Water Network provided by the Council in Green Square and must be configured to supply all toilets, washing machine locations, any car wash bays, any cooling towers and irrigation usage on the Land. As part of these requirements, the Contractor must: a) connect to the non-potable recycled water pipes installed by Council or in the event that the Council's Non-Potable Recycled Water Network system is not operational at that time, connect the non-potable water pipes in the Building to the town water (potable) pipes downstream of the Sydney Water town water meter (**Non Potable Water Connection Point**); b) provide space of 1m x 1m by 2.4m (or as otherwise agreed by Council) to accommodate metering equipment, isolation valves and incoming pipes for non-potable recycled water at the Non Potable Water Connection Point at a location to be agreed between the parties (**Non-Potable Recycled Water Room**); c) provide space and access from the property boundary to the Non Potable Water Connection Point of 1 metre in width for installation of recycled water pipes by Council (**Non-Potable Recycled Water Access Space**); d) design the Building so that it is capable of connecting to a non-potable recycled water supply with static pressure of a minimum of 15m/head at the property boundary; and e) design the Building on the basis that Council will procure a non-potable recycled water supply quality which complies with the Australian Guidelines for Water Recycling for use in toilets, washing machine taps, car wash bays, cooling towers and irrigation usage. The level of total dissolved solids level in the non-potable water supply shall be in accordance with the Australian Guidelines for Water Recycling and be less than 300 ppm 95% of the time.	Prior to the issue of an Occupation Certificate for each Building.

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2.	**Space Cooling System** The Contractor must undertake the following: **2.1 Space Cooling - Residential Units and Common Areas within a Residential Building greater than 15 storeys in height above street frontage ground level** Where air conditioning package or other systems requiring a refrigerant are installed for space cooling: 1) heat rejection must be via a central condenser water system 2) the air conditioning unit provided must have an energy efficiency rating (EER) for cooling of 3.5 or greater. **2.2 Space Cooling - Residential Units and Common Areas within a Residential Building 15 storeys or less in height above street frontage ground level** 1) Where an air conditioning unit is provided it must be of the Inverter type if a single evaporator is connected to the condensing unit or of Variable Refrigerant Flow (VRF) type if more than one evaporator is connected to the condenser. In either case the units must have an energy efficiency rating (EER) for cooling of 3.1 or greater. 2) The Contractor may (but is not obliged to) design, construct and configure these Buildings with the same specifications that apply to the Buildings in point 2.1 above. **2.3 Space Cooling - Retail Space within a Residential Building** Same as required as for a Residential Building, except: 1) Where the individual or group of individual retail units for the one user has an area that exceeds 2000 square metres and requires a chilled water air conditioning or refrigeration system it must be primarily supplied by heat fired adsorption, absorption chillers provided by the Contractor. 2) If a chilled water system is not used a Variable Refrigerant Flow (VRF) system or a stand alone condenser water system package, air handling units may be installed. The system must have an energy efficiency rating (EER) of 3.5 or greater for cooling or a coefficient of performance (COP) rating of 3.5 or greater for heating. Any electric chiller provided by the Contractor must have a coefficient of performance (COP) rating of 6 or greater.	Prior to the issue of an Occupation Certificate for each Building.
3.	**Air conditioning refrigerant**	Prior to the issue of an Occupation Certificate for each Building.

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	Where an air conditioning package or other system requires a refrigerant for space heating and/or cooling then: 1. The Contractor must ensure that the refrigerant used in the system has a Global Warming Potential (**GWP**) of 3 or less to ensure maximum greenhouse gas equivalent abatement if such system is available in suitable capacity ranges to match the design of conventional systems from at least three established suppliers on similar terms to conventional systems and at market rates which are not more than 10% higher than the market rates for conventional systems; and 2. if the Contractor is not required to have a refrigerant with a GWP or 3 or less, the Contractor must use its reasonable endeavours to use a system with a refrigerant which has the lowest commercially available GWP if such system is available in suitable capacity ranges to match the design of conventional systems from at least three established suppliers on similar terms to conventional systems and at market rates which are not more than the market rates for conventional systems.	
4.	**Easements** **Non Potable Recycled Water Network** The Contractor must procure registration of the following easements relating to the Non-Potable Recycled Water Network in the relevant folio or folios of the Register for that part of the Land containing the easement sites: 1) the Non-Potable Recycled Water Room; 2) the Non-Potable Recycled Water Access Space; 1) any other spaces in the Building required for the Non-Potable Recycled Water Network; 3) infrastructure (including pipes, meters and connection points) relating to the Non-Potable Recycled Water Network located in the Building that will be owned by Council; and 4) Council access to the Building after the Completion Date to construct, Deliver and Connect the Non-Potable Water Network, disconnect the pipes from the town water (potable) and maintain that Non-Potable Water Network. **Restrictions** 1) For each Building, the Contractor must procure the Registration of all restrictions contained in Table 4 of Schedule 3 on the use of the Land relevant to that Building and applicable to the owners and occupiers of the Building after the Completion Date	Prior to the issue of an Occupation Certificate for each Building.

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		in any Strata Management Statement that is Registered in respect of that Building.	
	2)	For each Building, the Contractor must procure the Registration of all restrictions contained in Table 4 of Schedule 3 on the use of the Land relevant to that Building and applicable to the owners and occupiers of the Building after the Completion Date in the relevant folio or folios of the Register for that part of the Land comprising that Building.	

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Table 5 - Other Public Benefits

	Contribution	Date Contribution is to be provided
1.	The Contractor must (at its cost and risk) procure the: (a) creation of easements under section 88B of the *Conveyancing Act* 1919 that burden the relevant parts of the Land shown in Map 3 – Schedule 3 and benefits the Council for the purpose of public access ways on the Land to the satisfaction of the Council. Details and locations of these easements are shown in Map 3 – Land to be Affected by Easements in Schedule 3; and (b) registration of each easement in the folio of the Register for that part of the Land containing the easement site.	For each easement on the Land that has its easement site within a Development Site, the easement is to be created on or before the Completion Date of the Building on the Development Site on which the easement site is situated. For each easement on the Land that has its easement site outside a Development Site, the easement is to be created on or before the Completion Date of the last Building that includes Habitable Space for the Development Sites adjoining the easement site.
2.	The Contractor must (at its cost and risk) procure the: (a) creation of an easement under section 88B of the *Conveyancing Act* 1919, a positive covenant under section 88E of the *Conveyancing Act* 1919 or such other restriction satisfactory to the Council that burdens the relevant parts of the Car Park Land and benefits the Council and allows visitors to the Community Facility to access and use any customer car parking spaces in the Car Park Land upon terms and conditions where they are neither advantaged or disadvantaged. The access granted to visitors under this easement must allow for a public accessway pedestrian connection between the customer car parking spaces to the boundary of Lot 2 in DP1199427; and (b) registration of such easement, positive covenant or such other restriction in the relevant folio of the Register for that part of the Car Park Land containing the easement site.	To be created on or before the Completion Date for the first Building on that part of the Car Park Land containing the easement site.
3.	The Contractor must (at its cost and risk) procure the: (a) creation of a positive covenant under section 88E of the *Conveyancing Act* 1919 that burdens the Car Park Land and benefits Council and requires the owner of the Car Park Land to install and maintain at all times adequate directional signage on the street frontages between the Car Park Land and Geddes Avenue/Botany Road and on the Car Park Land in the vicinity of the customer car parking spaces used for retail purposes to the satisfaction of the Council. The directional signage must indicate to the public both the location of the customer car parking spaces used for retail purposes on the Car Park Land and the location of the public access	To be created on or before the Completion Date for the first Building on that part of the Car Park Land containing the easement site.

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	way referred to in Item 2 of this Table 5 of this Schedule 3; and (b) registration of such positive covenant in the relevant folio of the Register for the Land.	

1.2 Increase in Contributions

(a) If the Contributions Tables state that the Contribution Amount will be increased, then the amount specified for that Contribution Amount in the Contributions Tables must be increased in accordance with the formula set out below:

$$\frac{Contribution\ Amount\ x\ CPI}{LCPI}$$

where:

CPI = the CPI last published before the due date for payment of that Contribution Amount; and

LCPI = the CPI last published before 30 June 2012.

No increase or other change will be made to the Contributions Amount where LCPI is greater than CPI.

Note: the Sydney Consumer Price Index (All Groups) is to be used

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MAP1 - SITE IDENTIFICATION PLAN

STAGE 4



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MAP2 - CONTRIBUTION LAND
STAGE 4



Consolidated stage boundary
Development sites
Area 1 – Roads to be dedicated in fee simple
Area 2 – Roads to be dedicated in fee simple
Area 3 – Public Plaza, community facility and road to be dedicated in fee simple
Area 4 – Roads to be dedicated in stratum
Area 5 – Footpath to be dedicated in stratum for width of 14m
Area 6 – Footpath to be dedicated in stratum for width of 14m
Area 7 – Footpath to be dedicated in stratum for width of 14m
Area 8 – Roads to be dedicated in fee simple
Area 9 – Roads to be dedicated in fee simple
Area 10 – Roads to be dedicated in stratum
Area 11 – Roads to be dedicated in stratum

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MAP3 - LAND TO BE AFFECTED BY EASEMENTS

STAGE 4



Consolidated stage boundary
Development sites
Area 13 – Easement for footpath widening, 3m wide at ground floor
Area 14 – Easement for footpath widening, 1.5m wide at ground floor
Area 15 – Easement to allow access for the public, for a width of 6m clear to the sky. 3m wide bridge may connect adjacent sites.
Area 16 – Easement to allow access to public, for width of 6m clear to the sky
Area 17 – Easement for colonnades, 5m wide at ground and first floor

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Schedule 4 - Contribution Works Procedures

This Schedule 4 applies to the Contribution Works.

1.1 Approvals and Design responsibility

(a) The Contractor must at its Cost and risk:

(i) prepare all Applications and obtain all Approvals necessary to carry out the Contribution Works, except for the Essential Infrastructure DA;

(ii) comply with all conditions of all such Approvals; and

(iii) comply with those conditions of the Essential Infrastructure DA agreed between the parties which are to be the responsibility of the Contractor in accordance with the principles set out in Schedule 19.

(b) The Contractor agrees to procure the design of the Contribution Works (so as to enable the achievement of Practical Completion of each Contribution Works Portion) in accordance with this Deed.

1.2 Construction phase

(a) Subject to paragraph 1.2(b) of this Schedule 4, the Contractor must procure the execution and completion of the Contribution Works in accordance with:

(i) the Approvals;

(ii) Schedule 3; and

(iii) its other obligations under this Deed.

(b) The Contractor must not commence construction of any of the Contribution Works until it has given the Council copies of the Construction Certificate relating to the Contribution WIK.

1.3 Review of Contribution Works and Construction Documents

The Contractor acknowledges and agrees that:

(a) the Council may, but is not obliged to review the plans and specifications of the Contribution Works;

(b) the Council is not responsible for any errors omissions or non-compliance with any Law or the requirement of any Authority by reason of agreeing to the plans and specifications of the Contribution Works;

(c) the Council is not liable for any liability, loss or Cost incurred by the Contractor because of any defect in the design or construction of any part of the Contribution Works; and

(d) no comment, review or information supplied to the Contractor by the Council alters or alleviates the Contractor from its obligation to construct and complete the Contribution Works in accordance with this Deed; and

(e) the Council must, if it elects to review the plans and provide comments in accordance with this paragraph 1.3, provide those comments to the Contractor within 20 Business Days of receipt.

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1.4 Contractor responsibilities

(a) Prior to Practical Completion, the Contractor is responsible for:

(i) providing all things and taking all measures reasonably within its control to protect people and property in relation to the Land where failure to do so may render the Council or the Contractor liable under the Law; and

(ii) taking any urgent action in relation to the Land necessary to protect people and the consequences of any failure to take such action where failure to do so may render the Council or the Contractor liable under the Law.

1.5 Damage

If the Contractor or the employees or agents of the Contractor in conducting the Contributions Works damage any public utilities and services or property on or adjacent to the Land, the Contractor must promptly make good the damage and pay any compensation which the Law requires the Contractor to pay.

1.6 Best Industry Practice

The Contractor must ensure that the Contribution Works it has procured to be designed and carried out are designed and carried out according to Best Industry Practice.

1.7 Quality of Material and Work

The Contractor must procure the Contribution Works to be carried out:

(a) in accordance with the relevant Approvals;

(b) using good quality materials, which must be suitable for the purpose for which they are required under this Deed;

(c) in compliance with relevant standards determined by Australian Standards Limited, the Building Code of Australia and any relevant manufacturers' standards; and

(d) so that the Contribution GI Works, when completed, comply with the specifications in Table 4 of the Contributions Schedule.

1.8 Insurance

The Contractor must ensure that there is effected and maintained an insurance policy covering such risks, and on terms, reasonably acceptable to the Council, including:

(a) physical loss, damage or destruction of each Contribution Works Portion (including any associated temporary works);

(b) third party liability;

(c) contractors; and

(d) professional indemnity insurance with respect to design works only.

The policy must provide cover for the period from the date of the commencement of construction of the relevant Contribution Works Portion until the end of any relevant Defects Liability Period for that Contribution Works Portion.

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1.9 Amount of property insurance

The insurance cover in relation to works insurance must be for an amount not less than the full insurable value of the relevant Contribution Works Portion on a full reinstatement and replacement basis (including extra Costs of reinstatement, Costs of demolition and removal of debris, and professional fees).

1.10 Insurance generally

All insurances which the Contractor is required by this Deed to effect and maintain:

(a) must be with insurers;

(b) must note the rights and interests of the Council; and

(c) must not in any respect limit or derogate from the liabilities or obligations of the Contractor under this Deed.

1.11 Self-insurer

(a) the Land Owner warrants, and Council acknowledges, that:

(i) the Land Owner is a member of the NSW Treasury Managed Fund; and

(ii) the Fund provides the Land Owner with insurance cover against liability arising from a breach by the Land Owner of its obligations under this Deed.

(b) the Land Owner warrants that, in the event it is no longer a member of NSW Treasury Managed Fund, it will provide suitable insurance which satisfies the requirements of paragraphs 1.8 - 1.10 (inclusive) of this Schedule 4.

(c) Where the Land Owner becomes the Contractor, the obligations in paragraphs 1.8 - 1.10 (inclusive), 1.12 - 1.14 (inclusive) of this Schedule 4 do not apply.

This clause 1.11 of Schedule 4 only applies while Landcom is the Land Owner.

1.12 Providing proof of insurance

Whenever reasonably requested in writing by the Council, the Contractor must give the Council certificates of the insurance policies which the Contractor is required by this Deed to effect and maintain.

1.13 Premiums

The Contractor must punctually pay all premiums in respect of all insurances.

1.14 Additional Obligations

The Contractor must:

(a) not do or omit to do anything which if done or not done might vitiate, impair, derogate or prejudice any insurance or might prejudice any claim under any insurance policy;

(b) if necessary, rectify anything which might prejudice any insurance policy;

(c) reinstate an insurance policy if it lapses;

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(d) immediately notify the Council in writing if an insurer gives notice of cancellation in respect of any insurance policy; and

(e) give full, true and particular information to the insurer of all matters and things the non-disclosure of which might in any way prejudice or affect any such policy or the payment of all or any benefits under the insurance.

1.15 Application of insurance proceeds

If all or any part of the Contribution Works is damaged or destroyed prior to Practical Completion thereof:

(a) all insurance proceeds in respect of that damage or destruction must be applied to repair or reinstate the Contribution Works, except if the damage or destruction is caused by the Council;

(b) if the insurance proceeds received under the insurances in respect of the damage or destruction are less than the cost of repairing or replacing the Contribution Works (or those insurances are void or unenforceable and there are no proceeds), the Contractor must complete the repair and replacement of the Contribution Works using its own funds; and

(c) if the insurance proceeds received under the insurances in respect of the damage or destruction exceed the Costs of repairing or replacing the Contribution Works, the Contractor will be entitled to keep that excess.

1.16 Input tax credits

Where the Contractor has effected any insurance policy referred to in this Deed before the date of this Deed, the Contractor:

(a) warrants that it informed the insurer of the extent of its entitlement to an input tax credit for the last premium it paid at or before the time of first making any subsequent claim under the insurance policy; and

(b) must inform the insurer of the extent of its entitlement to an input tax credit for any future premium it pays immediately after paying that premium.

Where the Contractor effects any insurance policy referred to in this Deed after the date of this Deed, the Contractor must inform the insurer of the extent of its entitlement to an input tax credit for any premium it pays immediately after paying that premium.

1.17 Certification

(a) When the Contractor is of the opinion that a Contribution Works Portion has reached Practical Completion, the Contractor must:

(i) for the Contribution GI Works, request the relevant Certifier to issue a certificate confirming Practical Completion of the relevant Contribution Works Portion (Certificate of Practical Completion);

(ii) for the Remediation Works, request the relevant Certifier to issue the Contractor Remediation Statement ; and

(iii) at the same time give the Council a copy of that request.

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1.18 Certifier to respond

Within 25 Business Days after the receipt of the Contractor's request, the Contractor must procure the Certifier to either:

(a) give the Contractor (with a copy to the Council at the same time):

(i) a Certificate of Practical Completion certifying that the Contribution GI Works has reached Practical Completion;

(ii) the Contractor Remediation Statement; or

(b) give the Contractor (with a copy to the Council at the same time) the reasons for not issuing that certificate and provide a detailed list of work required to be completed in order for that certificate to be issued.

1.19 Dispute where no Certificate of Practical Completion

If within 25 Business Days after receipt of the Contractor's request the Certifier does not:

(a) issue the Certificate of Practical Completion of the Contribution GI Works or the Contractor Remediation Statement (as the case may be); or

(b) give the Contractor reasons for not issuing the certificate,

then either the Council or the Contractor may regard the circumstances as constituting a dispute between the Council and the Contractor.

1.20 Dispute of detailed list

(a) If the Certifier issues the detailed list referred to in paragraph 1.18(b), then the Contractor may dispute the detailed list within 10 Business Days of the detailed list being issued by notice in writing to the Certifier.

(b) If the Certifier and the Contractor are not able to resolve the dispute about the detailed list within 15 Business Days of the Contractor notifying the Certifier of the dispute about the detailed list, then either the Council or the Contractor may regard the circumstances as constituting a dispute between the Council and the Contractor.

(c) If the Certifier and the Contractor resolve the dispute about the detailed list, then the Certifier must provide an updated detailed list or withdraw the detailed list and issue the Certificate of Practical Completion or the Contractor Remediation Statement (as the case may be).

1.21 Carrying out required work

(a) On receipt of the detailed list referred to in paragraph 1.18(b) in this Schedule 4 or the updated detailed list referred to in paragraph 1.20(c) in this Schedule 4, the Contractor must carry out the work referred to in that list and, on completion of that work, request the Certifier to issue a Certificate of Practical Completion or Contractor Remediation Statement (as the case may be).

(b) If the Certifier is satisfied that all such work has been completed in accordance with this Deed then, the Contractor must procure the Certifier to issue the Certificate of Practical Completion or the Contractor Remediation Statement (as the case may be) within 25 Business Days after receipt of the Contractor's request. Otherwise the provision of paragraphs 1.17 to 1.20 in this Schedule 4 inclusive re- apply.

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1.22 Prerequisites for Certificate of Practical Completion

Despite paragraph 1.19 in this Schedule 4, a Certificate of Practical Completion for a Contribution Works Portion may not issue unless and until:

(a) where relevant copies of all necessary documents and Approvals issued by the Consent Authority or relevant accredited certifier acknowledging completion of the Contribution Works Portion, and if appropriate permitting use and occupation (if applicable) of the Contribution Works Portion, including an Occupation Certificate (if required) have been delivered to the Council; and

(b) copies of all other certificates, consents and Approvals required of any relevant Authority, whose certificate, consent or approval is required for the erection, use or occupancy of that Contribution Works Portion have been delivered to the Council;

1.23 Bond

Except in relation to the Remediation Works, if there is a defect or omission in relation to a Contribution Works Portion which prevents the Certificate of Practical Completion being issued, and, if the Council (acting reasonably) agrees to accept a Bond to secure completion of that defect or omission, then:

(a) if the Contractor agrees, the Contractor must:

(i) provide the Bond for the amount required by the Council (acting reasonably) to secure that defect or omission; and

(ii) undertake in writing to rectify that defect or omission within the time nominated by Council (acting reasonably);

(b) upon receipt of the Bond and the Contractor's undertaking, the Council will direct the relevant Certifier to disregard that defect or omission for the purposes of certifying Practical Completion of that Contribution Works Portion;

(c) the Contractor must rectify the defect or omission in accordance with its undertaking; and

(d) if the Contractor fails to rectify the defect or omission in accordance with its undertaking, then the Council may call on the Bond in accordance with paragraph 8 of Schedule 10 and/or rectify the breach in accordance with paragraph 2 of Schedule 6.

1.24 Providing documents to the Council

If the Council reasonably so requires, the Contractor must use all reasonable endeavours to procure the issue and delivery to the Council of copies of the following items (as may be relevant) in relation to each Contribution Works Portion:

(a) a copy of as built drawings and all warranties and operations manuals given in connection with the Contribution Works Portion; and

(b) a copy of all certificates issued by any Authority in relation to any part of the Contribution Works Portion which have not previously been delivered to the Council,

promptly, and in any event within 90 Business Days, after Practical Completion.

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1.25 Rectification

(a) At any time during the Defects Liability Period (in respect of a Contribution Works Portion), the Council may inspect the Contribution Works Portion for the purpose of ascertaining what defects and omissions (if any) in the Contribution Works Portion are required to be made good by the Contractor.

(b) The Council may give notice to the Contractor that:

(i) states that part of the Contribution Works Portion is defective, giving details;

(ii) specifies the works which the Council considers are required to rectify the defect;

(iii) provides a reasonable estimate of the Costs and Legal Costs to rectify such works, including particulars of how those Costs and Legal Costs were calculated; and

(iv) allows the Contractor a reasonable period to rectify such works.

(c) The Contractor must rectify any defects or omissions in the Contribution Works Portion which are identified in a notice issued in accordance with paragraph 1.24(b) of this Schedule 4. For the avoidance of doubt, this obligation applies to the Remediation Works, including after the transfer of the Contribution Land.

(d) If the Contractor fails to complete or rectify such works within the period required by a notice issued under paragraph 1.23(b) of this Schedule 4, then the Council may have such works completed or rectified and the Contractor must reimburse the Council promptly following any demand by the Council for all Costs and reasonable Legal Costs incurred by the Council in completing or rectifying such works.

(e) The Contractor indemnifies the Council for all monies payable by the Contractor to the Council pursuant to paragraph 1.25(d) of this Schedule 4.

(f) The indemnity in paragraph 1.25(e) of this Schedule 4 is a continuing obligation, separate and independent from the Contractor's other obligations and survives completion, rescission or termination of this Deed. The Contractor must pay on demand any amount it must pay under the indemnity in paragraph 1.25(e) of this Schedule 4.

1.26 Not used

1.27 Development Program

The Contractor must provide an updated Development Program to the Council from time to time as the Development progresses, and as a minimum must provide an updated program:

(a) as soon as possible upon lodgement of an Application for construction of a Building with the relevant Consent Authority;

(b) whenever there are delays in the Development which materially impact on the milestones identified in the previous Development Program provided to Council which relate to the issue of a Construction Certificate or Occupation Certificate; and

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(c) no less than 6 months before the Contractor lodges an Application for an Occupation Certificate for any Building with the relevant Consent Authority.

1.28 Remediation

(a) The Contractor must:

(i) engage a Site Auditor for the works identified in this paragraph 1.28 including the preparation of the Contractor Remediation Statement;

(ii) prepare and submit to the Site Auditor for approval and obtain a Remediation Action Plan that:

A. sets out those works to be carried out by the Contractor consistent with the requirements in the Contributions Schedule which will then permit the Council to carry out the Council Road Works (including the installation of services and other works required to complete the Council Road Works) on the Contribution Lands **(Stage 1 Remediation)**;

B. in relation to the Remediation Works, sets out a certification process to certify that Contribution Lands have been Remediated in accordance with the Remediation Action Plan and the Contributions Schedule **(Contractor Remediation Statement)**.

C. sets out a certification process that certifies that the Contribution Lands are Remediated following the completion of the Council Road Works **(Stage 2 Remediation) (Council Remediation Statement)**;

D. includes a site management section which sets out what must be done to maintain the interim cap forming part of the Remediation Works, including the monitoring of the interim cap, until such time as the Stage 2 Remediation is completed; and

E. provides that the Environmental Consultant must also include sufficient detail to be used by the parties as a dilapidation report.

(iii) unless otherwise set out in the Remediation Action Plan, procure the preparation of an environmental management plan to regulate the access of the Contribution Lands below the capping put in place by the Contractor in accordance with the Contributions Schedule;

(iv) comply with all legislation and guidelines in carrying out the Remediation Works; and

(v) satisfy any conditions in the Contractor Remediation Statement and the Stage 1 Remediation in the Remediation Action Plan, including any ongoing monitoring obligations, including after the transfer of the Contribution Land, except to the extent such obligations are the responsibility of the Council in clause 1.28(b).

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(a1) The Council will be responsible for monitoring the surface of the interim cap forming part of the Remediation Works after the Contribution Land is transferred to Council.

(b) Nothing in this Deed obliges the Contractor to undertake:

(i) Remediation except in accordance with the Contributions Schedule;

(ii) the Council Remediation Statement; or

(iii) the construction of the Council Road Works (including the installation of any services in the roads); or

(iv) after the Contribution Lands are transferred to the Council, any works on the Contribution Lands which are required as a result of the ongoing monitoring to be carried out by the Contractor, unless such works are the result of a defect in the Remediation Works in which case the Contractor must carry out such works as are required under the Remediation Action Plan or the Contractor Remediation Statement to rectify such defect during the Defects Liability Period.

(c) Subject to paragraph 1.28(d) on and from transfer of the Contribution Land, the Contractor and Land Owner release the Council from all claims, actions, demands, losses, damages, reasonable Costs and reasonable Legal Costs suffered or incurred by the Council as the result of migrating Contaminants from the Contribution Lands onto the Land owned by the Land Owner and being developed by the Contractor.

(d) The release in paragraph 1.28(c) operates only until the date which is the earlier of:

(i) the date which is 5 years after the Occupation Certificate for the Building adjoining each portion of the relevant Contribution Land; and

(ii) in respect of any part of the Land sold by the Land Owner (other than Land on which a strata titled Building has been or is being constructed), provision to Council of a duly executed covenant from the purchaser of that sold Land in favour of the Council containing the release in paragraph 1.28(c) which will apply for 5 years after the Occupation Certificate for the Building adjoining the relevant Contribution Land.

1.29 Intellectual Property

The Council grants to the Land Owner and Contractor a licence to use the intellectual property rights which the Council has for the Essential Infrastructure DA Plans.

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Schedule 5 - Contribution Land Procedures

1.1 Approvals

No less than 10 Business Days before the timing identified in Column 2 of Table 2 of the Contributions Schedule, the Land Owner must at its Cost and risk, except in respect of the Essential Infrastructure DA:

(a) prepare all Applications and obtain all Approvals necessary to:

(i) Subdivide the Land by one or more plans of subdivision to separate the Contribution Land from the Land (**Relevant Subdivision**); and

(ii) create such easements, restrictions on use and covenants as agreed by the Council and the Land Owner (both acting reasonably) for those parts of the Land owned by the Land Owner, as being necessary or usual in the circumstances to permit and promote public access to the Contribution Land, which easements, restrictions on use or covenants must be registered at or about the same time as the relevant plan of subdivision (**Relevant Easements**);

(b) comply with all conditions of all such Approvals; and

(c) procure Land Registry Services NSW to register the relevant documentation and plans to create the Relevant Subdivision and register the Relevant Easements consistent with all such Approvals.

1.2 Land Owner undertakings regarding Contribution Land

In accordance with the timing identified in Column 2 of Table 2 of Schedule 3, the Land Owner must (at its Cost and risk):

(a) do all acts and execute and deliver all documents (in form and content reasonably satisfactory to the Council) to the Council (or such other person as the Council may reasonably direct) give effect to the transfer of Contribution Land to the Council for a consideration of $1;

(b) deliver to the Council:

(i) any consents and other documentation in registrable form required for the transfer (and registration) of the Contribution Land;

(ii) any permits in connection with the Contribution Land and any consents and other documentation in a registrable form necessary, or otherwise required by the Council, for the transfer (and registration) of those permits; and

(c) take any other necessary action (other than paying stamp duty) to give effect to the transfer of the title of the Contribution Land to the Council (or such other person as the Council may direct) free of all Encumbrances (other than a Permitted Encumbrance) and affectations (including any charge or liability for rates, taxes and charges) except any caveat lodged over the Contribution Land by the Council in accordance with clause 5.

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1.3 Compulsory Acquisition

(a) If the Land Owner does not transfer or grant to the Council the *"interests"* in land (as defined in the *Land Acquisition (Just Terms Compensation) Act* 1991) as required by this Deed (including the transfer of the Contribution Land to Council), the Land Owner consents to the Council compulsorily acquiring the whole or any part of that relevant interest in accordance with the *Land Acquisition (Just Terms Compensation) Act* 1991 (NSW), for the amount of $1.00.

(b) The Land Owner and the Council agree that:

(i) this paragraph 1.3 of this Schedule 5 is an agreement between them for the purposes of section 30 of the *Land Acquisition (Just Terms Compensation) Act* 1991 (NSW); and

(ii) in this paragraph 1.3 of this Schedule 5 they have agreed on all relevant matters concerning the compulsory acquisition and the compensation to be paid for the acquisition.

(c) Except as otherwise agreed between the Land Owner and the Council, the Land Owner must ensure that the Contribution Land is free of all Encumbrances (other than Permitted Encumbrances) and affectations (including any charge or liability for rates, taxes and charges), on the date that the Land Owner is liable to transfer the Contribution Land to the Council in accordance with paragraph 1.2 of this Schedule 5.

(d) The Land Owner indemnifies and keeps indemnified the Council against all claims made against the Council under the *Land Acquisition (Just Terms Compensation) Act 1991 (NSW)* as a result of any acquisition by the Council of the whole or any part of the relevant interest in land under paragraph 1.3 of this Schedule 5.

(e) The Land Owner must pay the Council, promptly on demand, an amount equivalent to all reasonable Costs and reasonable Legal Costs incurred by the Council acquiring the whole or any part of the relevant interest in land as contemplated by this Schedule 5.

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Schedule 6 - Notification and rectification of breach

1. Notice of breach

1.1 Notice of Breach by the Council

(a) If the Council considers that the Land Owner or the Contractor has defaulted on the performance of any of their respective obligations under this Deed, then the Council may give written notice to the defaulting party **(Defaulting Party)** (with a copy of the notice to the other party **(Non-Defaulting Party))** **(Breach Notice)** which:

(i) identifies the nature of the breach; and

(ii) specifies that the breach must be rectified within at least 20 Business Days (except in the case of an emergency or where there is an issue of public safety where less time may be specified) of the Council's notice.

(b) Nothing in this Deed obliges the Council to issue a Breach Notice under this paragraph 1.1 of Schedule 6 but, until such time as the Council notifies the Defaulting Party of the breach:

(i) the Council may not rely on the breach to withhold its consent or exercise other rights under this Deed arising from or in connection with the breach; and

(ii) the Council may not assert that the Contractor or Land Owner has not complied with a pre-condition under the Deed so as to prevent the issue of a Subdivision Certificate, Occupation Certificate or Construction Certificate under the EP & A Act.

1.2 Land Owner's or Contractor's Response to Notice

(a) Promptly upon receipt of a Breach Notice under paragraph 1.1 of this Schedule 6, the Defaulting Party must either:

(i) rectify the breach identified in the Breach Notice within the time period specified in that notice; or

(ii) notify the Council in writing that it does not agree that the breach identified in the Breach Notice has occurred, and refer the matter for dispute resolution in accordance with clause 12 and Schedule 7.

(b) In the absence of a manifest error on the face of the notice, nothing in paragraph 1.2(a)(ii) of this Schedule 6 will constrain or limit the Council's rights of recourse under this Deed.

1.3 Rights of the Council after Giving Notice

(a) If:

(i) the Defaulting Party does not take either of the actions outlined in paragraph 1.2(a) of this Schedule 6; or

(ii) any dispute notified by the Land Owner or the Contractor is resolved in favour of the Council,

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then the Council may take any or all of the actions available to it under this Deed including:

A. taking any action under paragraph 2.1 of this Schedule 6;

B. calling on the Bond under Schedule 10;

C. if the default specified in the Breach Notice relates to:

1) a failure by the Contractor to pay the Contribution Amount in accordance with this Deed; or

2) a failure by the Contractor to provide a Bond in accordance with this Deed,

then the Council may issue a notice to the Land Owner which:

3) identifies the nature of the breach; and

4) specifies that the breach must be rectified by the Land Owner within at least 20 Business Days (except in the case of an emergency or where there is an issue of public safety where less time may be specified) of the Council's notice,

and the provisions of paragraphs 1.2 and 1.3 of this Schedule 6 will apply in respect of that notice (with the necessary changes having been made) and if the Land Owner does not take either of the actions outlined in paragraph 1.2(a) of this Schedule 6 then the Council may have recourse against the Land Owner in relation to the breach.

(b) The rights of the Council under this Deed, and any action taken by it as referred to in paragraph 1.3(a) of this Schedule 6 or otherwise, are without derogation from the other rights and remedies available to the Council under this Deed, at Law and in equity in relation to any default of the Land Owner or the Contractor.

2. Council may rectify breach

2.1 Council may perform Contractor's and Land Owner's obligations

(a) Before exercising its rights under paragraph 2.1 of this Schedule 6, the Council will give at least 20 Business Days' (except in the case of an emergency or where there is an issue of public safety where less time may be specified) written notice to the Land Owner and the Contractor of its intention to exercise its rights under paragraph 2.1 of this Schedule 6.

(b) The Council may (but is not obliged to):

(i) perform the Contractor's or the Land Owner's obligations (as appropriate) where the Contractor or Land Owner (as appropriate) fails to:

A. rectify the breach identified in the notice referred to in paragraph 1.1 of this Schedule 6 within the time period specified in that notice; or

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B. notify the Council in writing that it does not agree that the breach identified in the notice referred to in paragraph 1.1 of this Schedule 6 and refer the matter for dispute resolution in accordance with clause 12 and Schedule 7;

(ii) rectify any breach of this Deed;

(iii) carry out other works that are necessary to be carried out; and

(iv) otherwise do anything which the Land Owner or the Contractor (as appropriate) should have done under this Deed.

(c) Without limiting paragraph 2.1 of this Schedule 6, the Council may enter onto the Land and do whatever is necessary to remedy the breach, in the absolute discretion of the Council, subject to compliance with the reasonable directions of the Land Owner and the Contractor relating to work, health and safety and compliance with all Laws.

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Schedule 7 - Dispute Resolution

1. Dispute

This Schedule 7 applies to:

(a) a dispute in connection with a technical matter which is not a legal matter arising from or in connection with this Deed or its subject matter and which is within the expertise of an expert appointed under paragraph 5 and which the Parties agree is a matter that should be determined by an expert (**Technical Dispute**); and

any dispute which is not a Technical Dispute (**Non-Technical Dispute**),

(collectively, a **Dispute**).

2. Notice of Dispute

(a) If a Dispute between any of the Parties arises, then any Party may give to the other Parties a notice of dispute in writing adequately identifying and providing details of the Dispute (**Dispute Notice**).

(b) The Parties must continue to perform their respective obligations under this Deed if there is a Dispute but will not be required to complete the matter the subject of the Dispute or on which any Dispute has a bearing, unless each Party indemnifies the other Parties against Cost, damages and all losses suffered in completing the disputed matter if the Dispute is not resolved in favour of the indemnifying Party.

3. Further steps required before proceedings

(a) Except as provided in paragraph 3(b), any Dispute between Parties arising in connection with this Deed or its subject matter must as a condition precedent to the commencement of litigation first be the subject of mediation between a person appointed from time to time by each (under written notice to the other Parties) to represent that Party and:

(i) If the Parties to the dispute cannot agree on a mediator within 10 Business Days of receipt by the relevant Part of the Dispute Notice, any such Party may request the President of the New South Wales Law Society to appoint a mediator;

(ii) Each Party must use its best efforts to resolve the dispute by a mediation procedure to be agreed upon by each Party to the dispute; and

(iii) If the mediation does not result in the resolution of the dispute within 30 Business Days of the Dispute Notice, then any Party is entitled to commence litigation in respect of that dispute

(b) If the Dispute the subject of the Dispute Notice is:

(i) Technical Dispute the value of which is more than $1 million (excluding prospective Legal Costs); or

(ii) a Non-Technical Dispute,

the Dispute is to be referred to the CEOs.

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(c) If the CEOs are unable in good faith to settle the Dispute within 15 Business Days after the Dispute Notice (or such longer period as the CEOs may unanimously agree), then, unless the CEOs unanimously agree in writing to the contrary (including an agreement that this Schedule 7 will apply as if the Dispute were a Technical Dispute) any one Party may take whatever course of action it deems appropriate for the purpose of resolving the Dispute and the provisions of this Schedule 7 will not apply.

4. Disputes for expert determination

Subject to paragraph 3(b), if a Technical Dispute has not been fully resolved within 15 Business Days of the Dispute Notice (or such other date as the Parties may agree), any one Party may, with the prior written consent notice of each to the other Parties, refer the matter to an expert agreed between the Parties for determination in accordance with paragraph 5 with such expert to act in accordance with paragraph 7.

5. Choice of expert

(a) A Technical Dispute to be referred to an expert in accordance with paragraph 4 must be determined by an independent expert in the relevant field:

(i) agreed between and appointed jointly by the Parties based on the proposed list of experts in clause 5(c); or

(ii) in the absence of agreement within 5 Business Days of referral of the matter to expert determination under paragraph 4, appointed by the President or other senior officer for the time being of the body administering the relevant field.

(b) If the Parties cannot agree as to the relevant field, any one Party may refer the matter to the President of the New South Wales Bar Association (or the President's nominee) whose decision as to the relevant field is final and binding on the Parties.

(c) The institutes or associations from which the expert may be appointed include, without limitation:

(i) if the dispute relates to engineering:

the Institution of Engineers Australia; or

(ii) if the dispute relates to insurance:

the Australian and New Zealand Institute of Insurance and Finance, New South Wales Branch; or

(iii) if the dispute relates to the valuation of works to be carried out:

the Australian Institute of Quantity Surveyors, New South Wales Division; or

(iv) if the dispute relates to Contamination or Remediation:

the President of the Australian Contaminated Land Consultants Association.

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6. Requirements for expert

The expert appointed to determine a Technical Dispute:

(a) must have a technical understanding of the issues in contest;

(b) must not have a significantly greater understanding of one Party's business or operations which might allow the other side to construe this greater understanding as a bias or a conflict of interest; and

(c) must inform the Parties before being appointed of the extent of the expert's understanding of each Party's business or operations and, if that information indicates a possible bias, then that expert must not be appointed except with the written approval of the Parties.

The Parties must enter into an agreement with the expert appointed under this Schedule 7 setting out the terms of the expert's determination and the fees and expenses payable to the expert.

7. Directions to expert

In reaching a determination in respect of a Technical Dispute under paragraph 4, the independent expert must give effect to the intent of the Parties entering into this Deed.

8. Expert not arbitrator

The expert must:

(a) act as an expert and not as an arbitrator; and

(b) proceed in any manner as the expert thinks fit but must observe the rules of natural justice but not the rules of evidence, not accept oral submissions unless both Parties are present and on receipt of written submissions from one Party ensure that a copy of such submission is given promptly to the other Party;

(c) take into consideration all documents, information and other material which the Parties give the expert which the expert in its absolute discretion considers relevant to the determination of the Technical Dispute;

(d) not be expected or required to obtain or refer to any other documents, information or material (but may do so if the expert so wishes);

(e) issue a draft certificate stating the expert's intended determination giving each Party 15 Business Days to make further submissions;

(f) issue a final certificate stating the expert's determination; and

(g) act with expedition with a view to issuing the final certificate as soon as practicable.

9. Compliance with directions

The Parties must comply with all directions given by the expert in relation to the resolution of the Technical Dispute and must within a time period specified by the expert, give the expert:

(a) a short statement of facts;

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(b) a description of the Technical Dispute; and

(c) any other documents, records or information the expert requests.

10. Expert may commission reports

The expert may commission the expert's own advisers or consultants (including lawyers, accountants, bankers, engineers, surveyors or other technical consultants) to provide information to assist the expert in making a determination. The Parties must indemnify the expert for the cost of those advisers or consultants.

11. Expert may convene meetings

(a) The expert will hold a meeting with all the Parties present to discuss the Technical Dispute. The meeting must be conducted in a manner which the expert considers appropriate. The meeting may be adjourned to, and resumed at, a later time in the expert's discretion.

(b) The Parties to the Dispute agree that a meeting under this paragraph is not a hearing and is not an arbitration.

12. Final determination of expert

(a) The Parties agree that the final determination by an expert will be final and binding upon them.

(b) The expert or mediator will not be liable in respect of the expert determination or mediation, except in the case of fraud or misfeasance by the expert or mediator.

(c) The Parties agree to release and indemnify the expert from and against all claims, except in the case of fraud or misfeasance by the expert, which may be made against the expert by any person in respect of the expert's appointment to determine the Technical Dispute.

13. Other courses of action

If the Technical Dispute has not been fully resolved 45 Business Days of the Dispute Notice (or such other date as the Parties may agree) or the expert determination required or agreed under paragraph 3 has not resulted in resolution of the Technical Dispute, any one Party may take whatever course of action it deems appropriate for the purpose of resolving the Technical Dispute.

14. Confidentiality of information

The Parties agree, and must procure that, the mediator and expert agrees as a condition of his or her appointment:

(a) subject to paragraph 14(b) below, to keep confidential all documents, information and other material, disclosed to them during or in relation to the expert determination or mediation; and

(b) not to disclose any confidential documents, information and other material except:

(i) to a Party or adviser who has signed a confidentiality undertaking to the same effect as this paragraph 14; or

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(ii) if required by Law or the ASX Listing Rules to do so; or

(c) not to use confidential documents, information or other material disclosed to them during or in relation to the expert determination for a purpose other than the expert determination or mediation.

The Parties must keep confidential and must not disclose or rely upon or make the subject of a subpoena to give evidence or produce documents in any arbitral, judicial or other proceedings:

(d) views expressed or proposals or suggestions made by a Party or the expert during the expert determination or mediation relating to a possible settlement of the Technical Dispute; and

(e) admissions or concessions made by Party during the expert determination or mediation in relation to the Technical Dispute; and

(f) information, documents or other material concerning the Technical Dispute which are disclosed by a Party during the expert determination or mediation unless such information, documents or facts will have been otherwise discoverable in judicial or arbitral proceedings.

15. Costs

The Costs of appointing a mediator or expert under this Schedule 7 will be borne equally by the Parties. Each Party will be responsible for its own Legal Costs.

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Schedule 8 - Registration of Deed

1.1 Registration

(a) The Land Owner agrees to procure the registration of this Planning Agreement in the relevant folio of the Register for the Land in accordance with section 7.6 of the EP&A Act and this Schedule 8.

(b) The Land Owner, at its Cost and risk, as soon as reasonably practicable (but in any event no later than 20 Business Days after the execution of this Deed by the Council) take all practical steps and otherwise do anything that the Council reasonably requires:

(i) to procure:

A. the consent of each person who:

1) has an estate or interest in the Land registered under the Real Property Act; or

2) is seized or possessed of an estate or interest in the Land; and

B. the execution of any documents; and

C. the production of the relevant certificates of title,

to enable the registration of this Planning Agreement under the Real Property Act by the Registrar-General in the relevant folio of the Register for the Land in accordance with section 7.6 of the EP&A Act; and

(ii) to procure registration of this Planning Agreement in the relevant folio of the Register for the Land in accordance with section 7.6 of the EP&A Act.

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Schedule 9 - Release and Discharge Terms

(a) Once the Council is satisfied that the Contractor and Land Owner has fully complied with all of its obligations under this Deed, at the Contractor's or Land Owner's request (and Cost), the Council agrees to:

(i) provide a full release and discharge of this Deed with respect to the whole of the Land; and

(ii) sign such documentation as is necessary to withdraw any caveat lodged by the Council in relation to the Land pursuant to clause 5; and

(iii) sign such documentation as is necessary to release this Deed registered on the folios of the Register of the Land.

(b) Despite paragraph (a) above of this Schedule 9, from time to time, the Land Owner or Contractor may request the Council to provide a release and discharge of the Planning Agreement to the extent the Planning Agreement affects any Development Site where:

(i) the Land Owner and Contractor have satisfied their obligations under this Planning Agreement (including paying any relevant Contribution Amount) in respect of that Development Site or provided security to the Council's satisfaction (in its sole and unfettered discretion) to secure performance of any outstanding obligations under this Planning Agreement in respect of that Development Site;

(ii) to the extent the Defects Liability Period for any Contribution Works Portion the subject of that Development Site has not expired, the Contractor has provided the Council with a Bond in accordance with Schedule 10; and

(iii) the Land Owner and the Contractor are not otherwise in Material Default of any of their obligations under this Planning Agreement (as determined by the Council (acting reasonably)) in respect of that Development Site, at the time of the Land Owner's or Contractor's request, unless the Council waives the default.

(c) If the conditions in paragraph (b) of Schedule 9 are satisfied, the Council will provide a release and discharge of the Planning Agreement in respect of the Development Site only, which will be registered in priority to the plan of strata subdivision of that Development Site.

(d) Following registration of this Planning Agreement in the relevant folio of the Register, the Contractor or the Land Owner may request the Council to remove any caveat registered on the Land under clause 5 and the Council must do all things reasonably necessary to withdraw the caveat as soon as possible after such request.

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Schedule 10 - Bonds

1. Bonds Required

1.1 Contractor to provide Bond

(a) The Contractor must provide:

(i) the Second Remediation Bond to the Council for the Second Remediation Bond Amount prior to the issue of the first Construction Certificate for the first Building adjoining Area 4A:

(ii) the Contribution GI Works Bond for each Building on the Land to the Council for the Contribution GI Works Bond Amount prior to the issue of the first Construction Certificate for the Building in which the Contribution GI Works are to be constructed.

1.2 Reduction of the Bonds for the Bond Works

(a) Subject to paragraph 1.2(b) of this Schedule 10, the Contractor may by written notice to the Council, upon Practical Completion of any part of the Bond Works, request a reduction of the Remediation Bond Amount having regard to the works completed at the time of the request. The Council will act reasonably in the consideration of whether a partial release or exchange (as the case may be) leaves appropriate or adequate security for the balance of the Bond Works.

(b) If the Contractor provides a Quantity Surveyor's assessment of the Bond Works and the Construction Cost with its request under paragraph (a) and Council (acting reasonably) is satisfied that the relevant Bond Works have achieved Practical Completion, then the Council must release to the Contractor a reasonable portion of the Bond having regard to the Construction Cost of the relevant completed Bond Works.

(c) The Contractor acknowledges and agrees that, to secure the Contractor's obligations under paragraph 1.25 of Schedule 4 during the Defects Liability Period for each component of the Bond Works the value of the Remediation Bond must not be reduced to an amount which is less than 10 per cent of the Remediation Bond Amount.

(d) For the avoidance of doubt, the Contribution GI Works Bond will not reduce in accordance with this clause 1.2 of Schedule 10. The Contribution GI Works Bond will be returned to the Contractor on expiry of the Defects Liability Period for that component of the Contribution GI Works to which the Contribution GI Works Bond relates.

1.3 Adjustment of Bond Amounts

(a) On each Adjustment Date the Bond Amounts are to be adjusted to the Revised Bond Amount as determined in accordance with the following formula:

$$RBA = \frac{BA \times A}{B}$$

where:

RBA is the Revised Bond Amount applicable from the relevant Adjustment Date;

BA is the Bond Amount that is current on the relevant Adjustment Date;

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A is the CPI published immediately before the relevant Adjustment Date (and in the case of the first adjustment, 30 June 2012);

B is the CPI published immediately before the date of this Deed and, in the case of subsequent adjustments, the immediately preceding Adjustment Date.

No increase or other change will be made to the Revised Bond Amount where B is greater than A or where the Revised Bond Amount is less than 10 per cent of the Bond Amounts.

(b) The Council must give the Contractor written notice of the Revised Bond Amounts to apply from the relevant Adjustment Date.

(c) The Contractor must give the Council replacement or further Bonds so that the Council holds Bonds for an amount equal to the Revised Bond Amounts no later than 15 Business Days after receipt of a notice given under paragraph 1.3(b) of this Schedule 10.

2. Face value of Bond

If a Bond is required to be provided by the Contractor to the Council under this Deed, then the Contractor must procure and give to the Council a Bond with a face value of an amount equivalent the amount and at the time specified in this Deed.

3. Expiry of Bonds

If, despite the requirements of this Deed, any Bond provided by the Contractor is expressed as expiring on a certain date, the Contractor must provide the Council with a replacement Bond 20 Business Days prior to the expiry of any Bond subject to paragraph 4 of this Schedule 10.

4. Failure to replace expired Bond

If the Contractor fails to provide the Council with a replacement Bond in accordance with paragraph 3 of this Schedule 10, the Council may call on the full amount of such Bond after giving 10 Business Days prior written notice to the Contractor.

5. No limitation of obligations

The provision of the Bond does not:

(a) relieve the Contractor from any of its obligations under any other provision of this Deed; or

(b) limit the right of the Council to recover from the Contractor in full all money payable to the Council under this Deed, including without limitation, interest on any such amounts or damages or other losses incurred by the Council.

6. Cash deposit

(a) If the Council makes demand under any Bond pursuant to paragraph 4 of this Schedule 10, the Council must hold the full amount so paid to the Council as a cash deposit (**Cash Deposit**) in a separate account opened with any body corporate that is an ADI (authorised deposit-taking institution) for the purposes of the Banking Act, 1959 in the name of the Council and with beneficial ownership vesting at all

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times in the Council (**Cash Deposit Account**). The Cash Deposit will operate to secure the same obligations under this Deed that the relevant Bond secured.

(b) As beneficial owner of the Cash Deposit, the Council may, at any time and without notice to the Contractor, withdraw money (including accrued interest) from the Cash Deposit Account and retain that money absolutely to satisfy or reimburse the Council for any liability, loss, cost, charge or expense incurred by the Council because of failure by the Contractor to comply with those of the Contractor's obligations under this Deed that the relevant Bond secured.

(c) All Costs, charges, duties and taxes payable in connection with the Cash Deposit Account or interest accruing on moneys credited to the Cash Deposit Account may be satisfied by the Council withdrawing money from the Cash Deposit Account and applying the money for that purpose.

(d) If no moneys are, or may become, payable to the Council under this Deed in connection with the obligations under this Deed secured by the relevant Bond and the Contractor has satisfied all of its obligations under this Deed which were secured by the relevant Bond, the Council must pay the balance of the Cash Deposit Account, less all Costs, charges, duties and taxes payable in connection with such payment, to the Contractor.

(e) For the avoidance of doubt, the Contractor has no right to require the Council to release the Cash Deposit until the Council is reasonably satisfied that no moneys are, or may become, payable to the Council under this Deed in relation to obligations secured by the relevant Bond.

7. Release of Cash Deposit

The Council must release the Cash Deposit to the Contractor if the Contractor provides the Council with a replacement Bond complying with the requirements of paragraph 3 of this Schedule 10.

8. Claims under Bond

(a) The Contractor agrees that the Council may make claims under a Bond provided by it on the following basis the Council may call upon the Bond (in full or in part) in the event that:

(i) the Contractor breaches its obligation to carry out and complete any of the Bond Works in accordance with this Deed; and

(ii) a notice has been issued by Council requiring the Contractor to remedy the breach in accordance with the requirements of paragraph 1 of Schedule 6, and the breach remains unremedied following the expiry of the rectification period specified in that notice,

and retain and use such monies to compensate the Council for the Contractor's breach of those obligations.

(b) The Council must take reasonable steps to mitigate its losses.

(c) The Council must not make a claim under a Bond in bad faith or unconscionably.

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9. Landcom not the Land Owner

(a) This paragraph 9 of Schedule 10 only applies if:

(i) Landcom has sold and transferred any part of the Land (**Sold Land**); or

(ii) Landcom is no longer a wholly owned government entity.

(b) The Contractor must provide a Bond for the amount of the total unpaid Contribution Amount to secure the obligations to pay the DRS component of the Contribution Amounts (**Contribution Amounts Bond**) payable:

(i) in respect of the Sold Land, where Landcom has sold and transferred the Sold Land; or

(ii) the whole of the Land, if Landcom is no longer a wholly owned government entity,

and the provisions of will apply to that Bond.

(c) The Parties agree the amount of the Contribution Amounts Bond will reduce progressively by an amount equivalent to each Contribution Amount after that Contribution Amount has been paid to the Council.

(d) In this clause, the **DRS component of the Contribution Amounts** in respect of the following Development Sites means, as at 30 June 2012:

(i) in respect of Development Site 8C, $3,613,139.48

(ii) in respect of Development Site 8D, $959,688.78

(iii) in respect of Development Site 19A, $5,784,031.31

(iv) in respect of Development Site 19B, $2,159,078.09.

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Schedule 11 - Assignment and Dealing

1.1 Contractor's and Land Owner's proposed assignment of rights

(a) Unless the matters specified in paragraph 1.1(b) of this Schedule 11 are satisfied and subject to paragraph 1.1(c) of this Schedule 11, the Contractor and the Land Owner are not to assign or novate to any person the Contractor's or the Land Owner's rights or obligations under this Deed.

(b) The Contractor or the Land Owner must not assign or novate to any person its rights or obligations under this Deed and the Land Owner must not transfer the whole or any part of the Land or its interest in the Land unless the prior written consent of Council is obtained. The Council must not unreasonably withhold its consent in circumstances where the following matters have been satisfied:

(i) the Contractor or the Land Owner (as the case may be) has, at no cost to the Council, first procured the execution by the person to whom the Contractor's or Land Owner's rights or obligations under this Deed are to be assigned or novated (**incoming party**), of a deed poll in favour of the Council in the form of Schedule 15, completed in a manner satisfactory to the Council. Such deed includes covenants that the incoming party:

A. will perform the obligations of the Contractor or the Land Owner (as the case may be) under this Deed; and

B. is bound by the terms and conditions of this Deed (relevant to the Contractor or the Land Owner (as the case may be) as if the incoming party had executed the Deed;

(ii) the Contractor or the Land Owner (as the case may be) demonstrates to the reasonable satisfaction of the Council that:

A. the incoming party is solvent;

B. the incoming party or related entity has experience in or can demonstrate the capacity to carry out staged medium or high density developments with a Gross Floor Area of at least 50,000 m² (or in the case of any transfer, assignment or novation with respect of a portion of the Land, then the proposed gross floor area of that portion, whichever is lesser); and

C. the incoming party provides to the Council a letter undertaking that any development of the Land will meet the Green Infrastructure requirements of this Deed; and

(iii) the Contractor and the Land Owner are not in Material Breach of this Deed with respect to the relevant part of the Land in case of an assignment or novation of the Contractor or Land Owner's interest in part of the Land only, unless the relevant breach is waived by the Council.

(c) Paragraph 1.1 of Schedule 11 does not apply to the Land Owner taking on the Contractor's rights and obligations under this Deed pursuant to clause 20.

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1.2 Right of Land Owner to sell Land

(a) The Land Owner must not sell or transfer the whole or any part of the Land (and must procure that the whole or any part of the Land is not sold or transferred) prior to this Deed being released and discharged from title to that Land (or any part of it) unless before any such sale, transfer or disposal of any such part of the Land or such part of their interest in the Land to another person (**Transferee**) the Land Owner obtains Council's prior written consent. The Council must not unreasonably withhold its consent in circumstances where:

(i) the requirements specified in paragraph 1.1(b) of this Schedule 11 are satisfied, with the exception of paragraph 1.1(b)(ii)(B) of this Schedule 11 in circumstances where the Transferee will not be carrying out the Development; and

(ii) the Council is satisfied that the Transferee has sufficient financial standing to meet the obligations under the Planning Agreement relevant to the Land or part of the Land being transferred, including to provide the relevant Bonds (if any).

(b) This paragraph 1.2 does not apply to:

(i) the transfer of a single lot in a strata plan (irrespective of whether the strata plan has been registered);

(ii) the off-the-plan sale of a stratum lot (irrespective of whether the plan of subdivision has been registered) for retail or commercial purposes which will not complete until after the Completion Date;

(iii) the transfer of a lot to a utility provider which is required for the purposes of utilities or services; and

(iv) any other lot agreed to by the Council.

1.3 Right to grant mortgage or charge

The Contractor or the Land Owner may grant a mortgage over any part of the Land or other charge or security interest in connection with its rights and interest in such Land without the Council's prior written consent provided that the Parties and the incoming financier enter into a deed on the terms reasonably required by the Council including that the mortgagee or charge of the Contractor or the Land Owner's right, title and interest in this Deed and/or any part of the Land, covenants with the Council to comply with the Contractor or the Land Owner's obligations under this Deed if, and for so long as, the mortgagee goes into possession of any part of the Land, including this Schedule 11 if the mortgagee sells the Land or any part or disposes of the Contractor's interest in the Development.

1.4 Council's Costs

The Contractor must pay to the Council (or reimburse the Council on demand) for all the reasonable Costs and reasonable Legal Costs incurred by the Council in connection with any assignment or dealing proposed under paragraphs 1.1 or 1.2 of this Schedule 11.

1.5 Council's assignment of rights

Council may assign its rights under this Deed to any successor in title.

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Schedule 12 - Access Rights

1.1 Land Owner warranty

The Land Owner warrants that it has granted (and will at all times grant) the Contractor such access to the Land and other rights as is necessary to enable the Contractor to perform its obligations under this Deed (including undertaking the Contribution WIK (and all ancillary and related works)).

1.2 Council to grant Contractor access

(a) The Parties acknowledge that the Council has required the transfer of the Contribution Land at an early stage in the program of the Development. As a consequence of the early transfer, the Contractor will from time to time require access to and other rights over the Contribution Land and other land owned by the Council (in the vicinity of the Land) for the purpose of completing the Development and any of the Contribution Works. This clause 1.2 sets out the basis on which access and other rights will be granted to the Contractor (including any of its employees, officers, contractors, subcontractors and agents).

(b) Subject to paragraph 1.2(c) of this Schedule 12 and at the Contractor's request, the Council will allow the Contractor (including any of its employees, officers, contractors, subcontractors and agents) access to the Contribution Land (after it is transferred to the Council) and other land owned by Council (within the vicinity of the Land) for the purpose of carrying out works associated with the:

(i) Development;

(ii) any of the Contribution Works; or

(iii) as otherwise agreed.

(c) If requested, the Council agrees to grant such licences or other rights (as are reasonably necessary) over the Contribution Land or other land owned by Council (in the vicinity of the Land) to enable the Contractor (including any of its employees, officers, contractors, subcontractors and agents) to carry out the Development or to perform the Contractor's obligations under this Deed.

(d) The Parties acknowledge that such licence or rights will be on such terms as the Council reasonably requires including provisions requiring the Land Owner, when exercising such rights in respect of the Contribution Land or any other land owned by Council (in the vicinity of the Land), to:

(i) limit the duration of the rights to a maximum of 2 years from the date of issue of the Construction Certificate relating respectively to each of the Buildings shown in the Access Plan or such other time as is agreed in writing between the Parties;

(ii) cause as little damage as reasonably possible;

(iii) where any damage is caused, restore the land and any improvements on the land to their condition as at commencement of occupation by the Contractor (including its employees, officers, subcontractors and agents);

(iv) minimise disruption to the use of the land adjoining any licensed areas owned by Council;

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(v) comply with the Council's work hours, lighting, insurance, occupational health and safety requirements;

(vi) indemnify Council on terms reasonably required by the Council in connection with the Contractor's use of the licensed area or the Contractor's default.

(e) Any request for access by the Contractor to the Council must be in writing and must be made at least 5 Business Days in advance of the proposed date of access

and the Contractor and the Council will enter into legally binding documentation which confirms these arrangements prior to access being granted to the Contractor.

(f) The Contractor must ensure that its contractors and its authorised representatives do not breach this clause 1.2 of this Schedule 12.

(g) Notwithstanding any other provision of this Deed, it is the intention of the Parties that the Land Owner and the Contractor will not be liable for fees or charges in respect of the Development on the Land which (but for the early transfer of the Contribution Land) would not have been payable if the Land Owner were the registered proprietor of the Contribution Land throughout the Development (other than statutory fees and charges). To that end, the Council agrees that it will not impose any special charge, rental or licence fee for the Contractor's access or other rights granted under this clause 1.2 of this Schedule 12.

(h) The Council must, if access is granted to the Contractor and the Land Owner under this paragraph 1.2:

(i) comply with all reasonable directions of the Contractor or Land Owner's site co-ordinator;

(ii) all relevant Laws including the *Work Health and Safety Act 2011;* and

(iii) any site awards or conditions as applicable;

1.3 Land Owner and Contractor to grant Council access

(a) Subject to paragraph (b) and (c), the Land Owner and the Contractor grants to the Council and its authorised representatives a non-exclusive licence to use and access the Contribution Lands for construction purposes, including to survey the Contribution Lands and construct infrastructure and install essential services as shown on the Access Plan without payment of rent, licence fee or other occupation payment by the Council:

(b) This licence immediately terminates in respect of any part of the Contribution Lands which the Land Owner or Contractor no longer own or control.

(c) The Council:

(i) when exercising its rights under the licence granted under this clause, must:

A. cause as little damage as reasonably possible;

B. where any damage is caused, restore the Land and any improvements on the Land to their condition as at

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commencement of occupation by the Council and Council's contractors;

C. minimise disruption to the use of the Land, including use of the Land by the Land Owner, the Contractor (including the carrying out by the Contractor of the Contribution GI Works and the Development) and anyone else lawfully on the Land;

D. comply with the Contractor's work hours, lighting, insurance, work health and safety requirements (to the extent that these requirements do not infringe any Laws, do not have a material impact on the Development Program and are not inconsistent with any Approval (including the Development Consent) and the reasonable requirements of the Land Owner and Contractor under this Deed);

E. comply with all reasonable directions of the Contractor or Land Owner's site co-ordinator;

F. co-operate fully with other contractors working on the Land and not interfere with the other contractors to execute their work;

G. comply with all relevant Laws including the *Work Health and Safety Act* 2011 and *Work Health and Safety Regulations* 2011; and

H. comply with any site awards or conditions as applicable.

(ii) indemnifies the Contractor and the Land Owner from and against damage, loss, injury and death caused by the negligence, default or unlawful acts of Council or any of Council's contractors while accessing the Contribution Lands under this licence except to the extent caused or contributed to by a negligent or wrongful act or omission of the Contractor, the Land Owner or their officers, agents, employees, licensees or contractors contributed to the liability.

A. Any request for access by Council to the Land Owner and Contractor must be in writing and must be made at least 5 Business Days prior to access being granted to Council.

B. Council must ensure its contractors do not breach this clause 1.3 of Schedule 12.

C. The Land Owner and the Contractor may, acting reasonably, instruct Council to remove its contractor, equipment and materials from the Land and may exclude that contractor from the Land in the case of breach of this clause 1.3 of Schedule 12.

D. Council acknowledges that the Land Owner and the Contractor are not responsible for supervising or co-ordinating the Council's works under this licence nor has the Land Owner or the Contractor undertaken any obligation or assumed any duty of care in respect of those works.

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(d) Council must:

(i) effect and maintain, or ensure that its contractors effect and maintain, in connection with the Council's works under this licence, contract works insurance, public liability insurance and workers compensation insurance as required by Law; and

(ii) provide to the Land Owner and Contractor, upon request, certificates of currency in respect of those insurances.

A. To the extent that Council's contractors are not covered by the insurances of Council, Council must procure that Council's contractors comply with paragraph 1.3(h) of this Schedule 12.

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Schedule 13 - General Provisions

1.1 Approvals and Consent

Except as otherwise set out in this Deed, and subject to any statutory obligations, a Party will not unreasonably withhold an approval or consent to be given under this Deed but may give its approval or consent subject to any conditions reasonably determined by that Party.

1.2 Costs

(a) Unless otherwise specified in this Deed, all Costs and Legal Costs relating to this Deed are to be borne by the Parties in the proportions specified in Schedule 14 and are payable on demand.

(b) Without limiting paragraph 1.2(a) of this Schedule 13, the Contractor or the Land Owner (as applicable) agrees to pay or reimburse the Council on demand for:

(i) Costs and Legal Costs of the Council in connection with:

A. exercising, enforcing or preserving, , enforce or preserve, rights under this Deed, including in connection with the Contractor or the Landowner's default but only where the Council is successful in exercising, enforcing or preserving its rights;

B. any waiver, variation, release or discharge of this Deed requested by the Contractor or the Landowner; and

(ii) Taxes and fees (including, without limitation, registration fees) and fines and penalties in respect of fees which may be payable or determined to be payable in connection with this Deed or a payment or receipt or any transaction contemplated by this Deed.

(c) Without limiting paragraph 1.2(a) of this Schedule 13, the Council agrees to pay or reimburse the Contractor or the Land Owner (as applicable) on demand for:

(i) Costs and Legal Costs of the Contractor or the Land Owner (as applicable) in connection with:

A. exercising, enforcing or preserving, or attempting to exercise, enforce or preserve, rights under this Deed, including in connection with the Council's default but only where the Contractor or the Land Owner (as applicable) is successful in exercising, enforcing or preserving its rights;

B. any waiver, variation, release or discharge of this Deed requested by the Council.

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1.3 Effect of terms and conditions in Schedules and Annexures

The Parties agree to comply with the terms and conditions contained in the Schedules and Annexures as if those terms and conditions where expressly set out in full in the operative parts of this Deed.

1.4 Entire agreement

To the extent permitted by law, in relation to its subject matter only, this Deed:

A. embodies the entire understanding of the parties, and constitutes the entire terms agreed by the Parties; and

B. supersedes any prior written or other agreement of the Parties.

1.5 Further acts

Each Party must promptly execute all documents and do all things that another party from time to time reasonably requests to affect, perfect or complete this Deed and all transactions incidental to it.

1.6 Governing Law and jurisdiction

This Deed is governed by the law of New South Wales. The Parties submit to the non-exclusive jurisdiction of its courts and courts of appeal from them. The Parties will not object to the exercise of jurisdiction by those courts on any basis.

1.7 Enforcement

(a) This Deed may be enforced by any Party in any court of competent jurisdiction.

(b) For the avoidance of doubt, nothing in this Deed prevents:

(i) a Party from bringing proceedings in the Land and Environment Court to enforce any aspect of this Deed or any matter to which this Deed relates; and

(ii) an Authority or the Council from exercising any function under the EP&A Act or any other Law relating to the enforcement of any aspect of this Deed or any matter to which this Deed relates.

1.8 No fetter

Nothing in this Deed is to be construed as requiring an Authority (including the Council) to do anything that would cause it to be in breach of any of its obligations at Law, and without limitation:

(a) nothing in this Deed is to be construed as limiting or fettering in any way the exercise of any statutory discretion or duty; and

(b) nothing in this Deed imposes any obligation on an Authority to:

(i) grant any Development Consent; or

(ii) exercise any function or power under the EP&A Act in relation to a change, or a proposed change, in an environmental planning instrument.

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1.9 Representations and warranties

Each Party each individually represents and warrants that:

(a) (**power**) it has power to enter into this Deed and comply with its obligations under the Deed;

(b) (**no contravention or exceeding power**) this Deed does not contravene its constituent documents (if any) or any law or obligation by which it is bound or to which any of its assets are subject, or cause a limitation on its powers or the powers of its officers to be exceeded;

(c) (**authorisations**) it has in full force and effect the authorisations necessary for it to enter into this Deed to which it is a party, to comply with its obligations and exercise its rights under this Deed and to allow this Deed to be enforced;

(d) (**validity of obligations**) its obligations under this Deed are valid and binding and are enforceable against it in accordance with the terms of the Deed;

(e) (**no immunity**) does not have immunity from the jurisdiction of a court or from legal process;

(f) (**benefit**) it benefits by entering into this Deed to which it is a Party; and

(g) (**capacity**) it does not enter this Deed as an agent for any other person or as trustee of any trust or on behalf or for the benefit of any other person.

Each Party acknowledge that each other Party has entered into this Deed to which it is a party in reliance on the representations and warranties in this paragraph 1.9 of this Schedule 12.

1.10 Severability

(a) If a clause or part of a clause of this Deed can be read in a way that makes it illegal, unenforceable or invalid, but can also be read in a way that makes it legal, enforceable and valid, it must be read in the latter way.

(b) If any clause or part of a clause is illegal, unenforceable or invalid, that clause or part is to be treated as removed from this Deed, but the rest of this Deed is not affected.

1.11 Modification

No modification of this Deed will be of any force or effect unless it is in writing and signed by the Parties as a Deed.

1.12 Waiver

(a) The fact that a Party fails to do, or delays in doing, something the Party is entitled to do under this Deed, does not amount to a waiver of any obligation of, or a breach of obligation by, another Party.

(b) A waiver by a party is only effective if it is in writing.

(c) A written waiver by a party is only effective in relation to the particular obligation or breach in respect of which it is given. It is not to be taken as an implied waiver of any other obligation or breach or as an implied waiver of that obligation or breach in relation to any other occasion.

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1.13 Confidentiality

The Parties agree that the terms of this Deed are not confidential and this Deed may be treated as a public Deed and exhibited or reported without restriction by any Party.

1.14 Release and indemnity

(a) The Contractor and the Land Owner each agree that the obligation to provide the Contributions is at the risk of the Contractor and the Land Owner (as applicable).

(b) The Contractor and the Land Owner each release the Council from any claim, liability or loss arising from, and Costs and Legal Costs incurred in connection with, the Contractor's and the Land Owner's obligation to provide the Development Contributions.

(c) The Contractor and the Land Owner each indemnify and will keep indemnified the Council from and against all claims, actions, demands, losses, damages, Costs and Legal Costs (**Loss**) incurred by the Council or for which the Council may become liable in connection with:

(i) the Council enforcing the Contractor's or the Land Owner's (as the case may be) obligation to provide the Contributions in accordance with this Deed; and/or

(ii) the Council exercising the Council's rights under or by virtue of this Deed, including the exercise or purported exercise of the rights of the Council' rights under paragraph 2.1 of Schedule 6,

except to the extent caused or contributed to by a negligent or wrongful act or omission of the Council or its officers, agents, employees, licensees or contractors contributed to the liability or where the Council has exercised its rights in breach of this Deed.

(d) The indemnity in paragraph 1.14(f) of this Schedule 13 is a continuing obligation, independent of the Contractor's or the Land Owner's other obligations under this Deed and continues after this Deed ends.

(e) It is not necessary for a Party to incur expense or to make any payment before enforcing a right of indemnity conferred by this clause 1.14.

(f) A Party must pay on demand any amount it must pay under an indemnity in this clause 1.14.

1.15 Mutual exclusion for Consequential Loss

(a) Subject to clause 1.15(b) of Schedule 13, but otherwise notwithstanding any other provision of this Deed (including any indemnity) no Party will be liable to any other party for any Consequential Loss suffered by a Party arising under or in connection with this Deed in respect of any claim.

(b) Clause 1.15(a) shall not operate to limit or restrict in any way any Parties' liability:

(i) for any debt or other amount payable to or recoverable by another Party under an express provision of this Deed, excluding, for the avoidance of doubt, any amount payable or recoverable under an indemnity;

(ii) for fraud;

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(iii) for any act or omission done or omitted to be done with the intention of causing substantially harmful consequence or with conscious indifference to the rights or welfare of those who are or may be affected;

(iv) to the extent that the relevant Party has:

A. recovered from a third party (including any subcontractor and whether by way or indemnity or otherwise); or

B. would have recovered from a third party, had it promptly claimed and diligently pursued a claim against a third party,

an amount in respect of that liability;

(v) to the extent such liability:

A. is covered by a policy of insurance in the relevant Party's name; or

B. would have been covered by a policy of insurance in the relevant Party's name but is not because that Party did not:

1) promptly claim and diligently pursue a claim under the policy of insurance; or

2) comply with the terms and conditions (including in respect of disclosure obligations) of that policy or insurance or its insurance obligations under this Deed; and

(vi) which by law cannot be limited or excluded.

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Schedule 14 - Costs

Contractor is to pay 100% of Costs and reasonable Legal Costs associated with the preparation and execution of this Deed up to an amount of $6,380 .

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Schedule 15 - Pro-forma Novation Deed

Novation Deed

[*Planning Authority*]
Council

[*Land Owner*]
Land Owner

[*Contractor*]

Contractor

[Insert Transferee's name]
Transferee

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Novation Deed made at **on**

Parties **[*insert*]**
(Council)

[*insert*]
(Land Owner)

[*insert*]
(Contractor)

[Insert Transferee's name] of *[insert]* **(Transferee)**

Recitals

A The Council, the Contractor and the Land Owner are parties to the Original Agreement.

B The Original Agreement relates to the whole of the Land.

C The Transferor wishes to ***[insert details of the transfer]***.

This deed provides

1. Definitions and interpretation

1.1 Definitions

Continuing Party means [ ].

Effective Date means [*insert*].

Land has the meaning given to that term in the Original Agreement.

Original Agreement means the voluntary planning agreement dated [*insert*] and made between the Council, the Contractor and the Land Owner.

Transferor means *[insert]*.

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1.2 References to certain general terms

In this deed unless the contrary intention appears:

(a) a reference to this deed or another instrument includes any variation or replacement of them;

(b) a reference to a statute, ordinance, code or other law includes regulations and other instruments under it and consolidations, amendments, re-enactments or replacements of any of them;

(c) the singular includes the plural and vice versa;

(d) the word person includes a firm, body corporate, an unincorporated association or an authority;

(e) a reference to a person includes a reference to the person's executors, administrators, successors, substitutes (including, without limitation, persons taking by novation) and assigns;

(f) an agreement, representation or warranty on the part of or in favour of two or more persons binds or is for the benefit of them jointly and severally;

(g) a reference to any thing (including, without limitation, any amount) is a reference to the whole or any part of it and a reference to a group of persons is a reference to anyone or more of them;

(h) "include" in any form when introducing a list of items does not limit the meaning of the words to which the list relates to those items or to items of a similar nature; and

(i) capitalised terms which are used in this deed but are not otherwise defined have the meaning given to them in the Original Agreement.

1.3 Headings

Headings are inserted for convenience and do not affect the interpretation of this deed.

2. Novation

2.1 Original Agreement

Subject to clause 2.2 and with effect from the Effective Date:

(a) the Transferee is substituted for the Transferor as a party to the Original Agreement, and agrees to perform the all obligations and discharge all liabilities under the Original Agreement which, but for this deed, the Transferor would have been required to perform or discharge at and after the Effective Date;

(b) the Transferee will be bound by the Original Agreement, and will be entitled to the benefit of the Original Agreement which but for this deed the Transferor would have been entitled at and after the Effective Date, as if the Transferee was a party to the Original Agreement instead of the Transferor;

(c) the Continuing Party releases and discharges the Transferor from all obligations and liabilities, and from all obligations and liabilities under the Original Agreement to be performed or discharged at or after the Effective Date; and

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(d) the Transferor releases each/the Continuing Party from all obligations and liabilities under the Original Agreement to be performed or discharged at or after the Effective Date.

2.2 Liability before Effective Date

Notwithstanding clause 2.1, the Transferor and the Continuing Party are not released, relieved or discharged from any obligation or liability under the Original Agreement before the Effective Date, or any breach of any provision of the Original Agreement by the Transferor occurring before the Effective Date (to the extent that it is not remedied by the Effective Date).

3. Affirmation of the Original Agreement

The Original Agreement will be read and construed subject to this deed, and in all other respects the provisions of the Original Agreement are ratified and confirmed, and, subject to the variation and novation contained in this deed, the Original Agreement will continue in full force and effect.

4. GST

Where a supply made under this deed gives rise to a liability for GST, the consideration to be provided for that supply (other than under this clause) shall be increased by an additional amount equal to the GST payable on the supply. The additional amount must be paid, and the supplier must provide a tax invoice, at the same time as the other consideration for that supply is to be provided under this deed. Terms used in this clause have the meanings in the *A New Tax System (Goods and Services Tax) Act 1999*.

5. Stamp duty and costs

(a) The Transferor and the Transferee are jointly and severally liable for the Council's Legal Costs of and incidental to the negotiation, preparation and execution of this deed, and must reimburse the Council for such Legal Costs promptly on demand.

(b) The Transferee will pay all stamp duty arising directly or indirectly from this deed.

6. Further acts

(a) Each party will take all steps, execute all deeds and do everything reasonably required by any other party to give effect to any of the actions contemplated by this deed.

(b) This deed binds each party which signs it even if other parties do not, or if the execution by other parties is defective, void or voidable.

7. Governing law

This deed is governed by the law in force in the place specified in the New South Wales and the parties submit to the non-exclusive jurisdiction of the courts of that place.

8. Counterparts

This deed may consist of a number of counterparts and the counterparts taken together constitute one and the same instrument.

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Executed as a deed.

[*insert Appropriate execution clauses for the Council, Contractor and Land Owner*]

Executed by **[insert Transferee]** in accordance with section 127 of the *Corporations Act* by or in the presence of:

Signature of Secretary/other Director	Signature of Director
Name of Secretary/other Director in full	Name of Director in full

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Schedule 16 - Development Program

Contractor's indicative Development Program

Development Site/Area	Construction		Settlement	
	Commence	Complete	Commence	Complete
Development Site 19A	Sep--25	Nov-28	Dec-28	Jun-29
Development Site 19B	Sep-25	Nov-28	Dec-28	Jun-29
Development Site 8C	Sep-24	Nov-27	Dec-27	Jun-28
Development Site 8D	Sep-24	Nov-27	Dec-27	Jun-28

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Schedule 17 - Not used

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Schedule 18 - Access Plan

MAP4 - ACCESS PLAN
STAGE 4



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Schedule 19 - Allocation of Essential Infrastructure DA conditions

The Parties agree that the conditions in any consent to the Essential Infrastructure DA will be allocated as follows:

1. to the Contractor, all conditions, to the extent that those conditions are consistent with Table 3 of Schedule 3, relating to:
    a. the Stage 1 Remediation, including ongoing monitoring in accordance with clause 1.28 of Schedule 4;
    b. Earthworks relating to the Stage 1 Remediation on the Land; and
    c. any other conditions but only so far as they relate to the Stage 1 Remediation and earthworks relating to the Stage 1 Remediation on the Land.
2. to the Council, all other conditions including:
    a. all conditions required to be satisfied before the commencement of the Stage 1 Remediation; and
    b. all conditions to the extent that they relate to works required to be carried out that are in addition to the Stage 1 Remediation specifications contained in Table 3 of Schedule 3,

but excluding any conditions which are the responsibility of the Contractor under paragraph 1 of this Schedule 19.

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1. Interpretation

1.1 Definitions

The following words have the meanings given to them in this Schedule unless the contrary intention appears:

Australian Drinking Water Guidelines means the publication of the same name by the National Health and Medical Research Council and Natural Resource Management Ministerial Council (2011).

Australian Guidelines for Water Recycling means:

(a) the Australian Guidelines for Water Recycling: Managing Health and Environmental Protection Heritage Council, Natural Resource Management Ministerial Council and Australian Health Ministers Conference (2005); and

(b) Australian Guidelines for Water Recycling: Stormwater Harvesting and Reuse Phase 2 by the Environment Protection and Heritage Council, Natural Resource Management Ministerial Council and Australian Health Ministers Conference (2009).

BAU Works means the works, infrastructure and services that the Contractor may (at the Contractor's election) construct and install in a Building (other than the Contribution GI Works) in accordance with all relevant Approvals that provides for waste disposal, water supply, domestic hot water, heating and cooling systems in the Building without the Delivery and Connection of the Green Infrastructure.

Best Industry Practice means the exercise of that degree of professional skill, diligence, and prudence that reasonably would be expected from competent persons performing tasks and functions similar in nature to the Green Infrastructure Works and consistent with the Law.

Connection Commencement Date has the meaning given to that term in respect of Green Infrastructure in clause 7.

Connection Completion Date has the meaning given to that term in respect of Green Infrastructure nominated in clause 7.

Consequential Loss means any loss of profit, loss of revenue, loss of business opportunity or goodwill, loss of any contract or any indirect loss.

Contractor's First Notice, in respect of a Building, has the meaning given to that term in clause 5.1.

Contractor's Second Notice, in respect of a Building, has the meaning given to that term in clause 5.3.

Council Construction Period and **Council Construction Periods** means, in respect of a Building, the whole of the period during which it is intended that Council will construct, Deliver and Connect the relevant Green Infrastructure which:

(a) for Delivery, commences on the Delivery Commencement Date and ends on the Delivery Completion Date specified in this Schedule for that Green Infrastructure; and

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(b) for Connection, commences on the Connection Commencement Date and ends on the Commencement Completion Date specified in this Schedule for that Green Infrastructure.

DA Design means the detailed design for a Building (and not merely conceptual design or design studies) that will be submitted to the relevant Consent Authority as part of a Development Application for approval to construct and use that Building.

DA Expiry Date has the meaning given to this term in clause 5.5(a)(iii).

Delivery Commencement Date has the meaning given to that term in respect of Green Infrastructure in clause 7.

Delivery Completion Date has the meaning given to that term in respect of Green Infrastructure in clause 7.

Design Reports and Plans means, in respect of each Building, those reports and plans identifying the Contribution GI Works that have been, or will be, constructed.

Expected Completion Date means, in respect of a Building the date nominated by the Contractor in the Development Program provided by the Contractor to Council from time to time in accordance with the notice requirements of this Deed as the date by which the Contractor reasonably believes will be the Completion Date for that Building.

Green Infrastructure Delivery and Connection Arrangements means the arrangements for the Delivery and Connection of Green Infrastructure and Green Infrastructure Works contained in Annexure A to this Schedule, as amended from time to time in accordance with this Schedule.

Green Infrastructure Works means the works to be undertaken by Council and Council's contractors to construct the Green Infrastructure on the Site and Deliver and Connect the Green Infrastructure in accordance with this Schedule.

Liability in relation to a person, means any liability or obligation however it arises and whether it is present or future, fixed or unascertained, actual or contingent.

Loss includes any direct loss, damage, Liability, compensation, fine, penalty, charge, payment, cost or expense (including any legal cost and expense on a full indemnity basis) however it arises and whether it is present or future, fixed or unascertained, actual or contingent.

Site means the area within the Land on which the Green Infrastructure is to be constructed, Delivered and Connected in accordance with this Schedule.

2. Not used

3. Contract Term

3.1 Not used

3.2 Staged termination

(a) This Schedule ceases to have effect with respect to each Building in a staged manner on the Completion Date for that Building.

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(b) Notwithstanding paragraph (a), neither Party is released, relieved or discharged from:

(i) liability under this Deed in connection with a Building that arose before the Completion Date for that Building; or

(ii) any breach of any provision of this Deed by a Party occurring before the Completion Date for that Building (to the extent that it is not remedied by the Completion Date).

4. Parties' obligations and acknowledgement

4.1 Council's primary obligations

(a) Council will use its reasonable endeavours to enter into arrangements with a contractor for the construction of the Non-Potable Recycled Water Network.

(b) Provided Council has entered into an arrangement with a contractor for the construction of Green Infrastructure in accordance with paragraph (a), Council must (at Council's Cost) use Council's reasonable endeavours to Deliver and Connect the Green Infrastructure relevant to a Building within the relevant Council Construction Periods:

(i) in a proper and workmanlike manner;

(ii) using good quality materials, which must be suitable for the purpose for which they are required under this Schedule;

(iii) so that it is consistent with the Design Reports and Plans for the Contribution GI Works provided by the Contractor; and

(iv) in accordance with:

A. all Laws and any Approvals (including the Development Consent for the Building);

B. the Green Infrastructure Delivery and Connection Arrangements;

C. the Contractor's design for the Building and the Contribution GI Works;

D. without the use of asbestos;

E. Best Industry Practice;

F. relevant standards determined by Australian Standards Limited, the Building Code of Australia and any relevant manufacturers' standards; and

G. any other requirements of this Deed.

4.2 Contractor's and Land Owner's primary obligations

(a) Subject to clause 5.4, the Contractor must provide the Contribution GI Works in accordance with this Deed, including this Schedule, regardless of whether or not Council Delivers and Connects the Green Infrastructure.

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(b) The Contractor and the Land Owner must grant Council and its contractors access to that part of the Land reasonably required by Council to fulfil Council's obligations under this Deed in accordance with clause 9 of this Schedule.

4.3 Acknowledgements

The parties acknowledge that:

(a) the Contribution GI Works are to be carried out by the Contractor in accordance with this Deed, including the GI Connection Specification, irrespective of whether or not Council Delivers and Connects the Green Infrastructure (subject to clause 5.4);

(b) the Contractor may (but is not obliged to) install and commission the BAU Works in a Building in addition to the Contribution GI Works;

(c) subject to Council Delivering and Connecting the Green Infrastructure for a Building within the relevant Council Construction Periods, the Contractor and Land Owner must facilitate the connection of the Green Infrastructure by Council; and

(d) nothing in this Deed requires the Contractor or the Land Owner to proceed with construction of a Building or connect to the Green Infrastructure.

4.4 Communication

Notwithstanding the notification provisions of this Deed, in respect of each Building:

(a) the Contractor must keep Council reasonably informed of:

(i) the progress of the Contribution GI Works;

(ii) the Expected Completion Date;

(iii) the anticipated date of Practical Completion of the Contribution GI Works in respect of each Building; and

(iv) the relevant Delivery Commencement Dates, Delivery Completion Dates, Connection Commencement Dates and Connection Completion Dates; and

(b) Council must keep the Contractor reasonably informed of the progress of the construction of Green Infrastructure, including the anticipated date for the construction, Delivery and Connection of that Green Infrastructure to each Building.

4.5 Development Consent

(a) The parties acknowledge that notwithstanding the Contractor's obligation to provide the Contribution GI Works under clause 4.2(a) the Contractor may also include in the Development Application for each Building a request for approval for the design, construction and commissioning of the BAU Works in addition to the Green Infrastructure.

(b) The Contractor must advise Council whether the Development Consent allows for the use of:

(i) both the BAU Works and the Green Infrastructure;

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(ii) only the BAU Works; or

(iii) only the Green Infrastructure,

in the Contractor's Second Notice.

(c) Without limiting the obligations of the Contractor under clause 4.2(a) or the rights of the Contractor under clause 4.3(d):

(i) if the Development Consent allows for the use of both the BAU Works and the Green Infrastructure so that an Occupation Certificate can be obtained for the Building whether or not the Green Infrastructure is Delivered and Connected, the Contractor may design and construct the Building to provide for the BAU Works in addition to the Contribution GI Works subject to the requirements of the Development Consent, and this Deed;

(ii) if the Development Consent does not allow for the use of both the BAU Works and the Green Infrastructure so that an Occupation Certificate can be obtained for the Building only if the BAU Works are constructed and Delivery and Connection of the Green Infrastructure is not permitted, then Council cannot access the Land (including the Site and Building) for the purposes of Delivering and Connecting the Green Infrastructure to the Building prior to the Completion Date; and

(iii) if the Development Consent allows only for the use of the Green Infrastructure and not the BAU Works so that an Occupation Certificate can only be obtained for the Building if the Green Infrastructure is Delivered and Connected and the BAU Works are not permitted, then the Contractor may in accordance with its rights under clause 4.3(d) elect in the Contractor's Second Notice whether or not to proceed with construction of the Building in accordance with that Development Consent.

5. Contractor and Council Green Infrastructure notification provisions

5.1 Contractor's First Notice

For each Building, the Contractor must give a notice to Council (**Contractor's First Notice**) upon the Contractor commencing the DA Design for that Building, which notice:

(a) advises the following:

(i) the Contractor's expected construction program for the Building, including the following anticipated dates as they are programmed in the Contractor's expected construction program as at the date of the Contractor's First Notice:

A. the Expected Completion Date;

B. the date of Practical Completion of the Contribution GI Works in respect of each Building; and

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C. the relevant Delivery Commencement Dates, Delivery Completion Dates, Connection Commencement Dates and Connection Completion Dates;

(ii) the Contractor's expected Development Program for the remaining Buildings (to the extent this information is available to the Contractor as at the date of the Contractor's First Notice);

(iii) the proposed estimate of the number of dwellings in the Building;

(iv) the proposed estimate of the height of the Building; and

(v) the expected lodgement date of the Development Application for the Building; and

(b) may request other information that the Contractor reasonably requires of Council for the Contractor to progress the Contractor's DA Design.

5.2 Not used

5.3 Contractor's Second Notice

Following issue of a Development Consent for each Building and on or prior to a Construction Certificate being issued for that Building, the Contractor must give to Council a notice (**Contractor's Second Notice**) which notice advises:

(a) if the Building is proceeding to construction;

(b) any variations to the information provided in the Contractor's First Notice pursuant to clauses 5.1(a) and 5.1(a)(ii);

(c) whether the Development Consent allows for:

(i) the use of both the BAU Works and the Green Infrastructure so that an Occupation Certificate can be obtained for the Building whether or not the Green Infrastructure is Delivered and Connected;

(ii) the use only of the BAU Works so that an Occupation Certificate can be obtained for the Building only if the BAU Works are constructed and without the Delivery and Connection of the Green Infrastructure; or

(iii) the use only of the Green Infrastructure so that an Occupation Certificate can be obtained for the Building only if Green Infrastructure is Delivered and Connected and the BAU Works are not permitted; and

(d) all Design Reports and Plans for the Contribution GI Works in the possession of the Contractor at the date of the Contractor's Second Notice.

5.4 Council's Green Infrastructure Notice

(a) As soon as reasonably practicable after Council determines that the Non-Potable Recycled Water Network will never be Delivered to a Building in the Development (**Determination**), Council must give a Notice to the Contractor and the Land Owner advising that it does not intend to ever Deliver and Connect the Non-Potable Water Network to the nominated Building in the Development (**Green Infrastructure Notice**).

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(b) If Council gives a Green Infrastructure Notice to the Contractor and the Land Owner then, subject to clauses 5.4(c) and 5.5, the Contractor and the Land Owner will be relieved of their obligations under this Deed to provide that corresponding part of the Contribution GI Works relating to the Non-Potable Recycled Water Network for the Building specified in the Green Infrastructure Notice.

(c) Council may give a Green Infrastructure Notice at any time, but in any event, as soon as reasonably practicable after it has made a Determination.

(d) Nothing in this clause 5.4 relieves the Contractor of its obligations to provide the part of the Contribution GI Works relating to the space cooling system and air conditioning refrigerant in accordance with this Deed.

5.5 Council Withdrawal Notice

(a) If :

(i) Council gives the Contractor and the Land Owner a Green Infrastructure Notice; and

(ii) the Development Application for the Building specified in the relevant Green Infrastructure Notice or Contractor's First Notice (as the case may be) has not been lodged more than 18 months after the date of the Green Infrastructure Notice (**DA Expiry Date**),

then, Council may (in its absolute discretion) withdraw the Green Infrastructure Notice by giving the Contractor Notice (**Council Withdrawal Notice**) at any time up to the actual date of lodgement of the relevant Development Application for the Building specified in the Green Infrastructure Notice or Contractor's First Notice (as the case may be) in which case:

(iii) if a Green Infrastructure Notice for the Building has been issued, the Green Infrastructure Notice will cease to have any effect; and

(iv) notwithstanding clause 5.4(b), the Contractor and the Land Owner will not be relieved of their obligations under this Deed to provide that part of the Contribution GI Works relating to the Non-Potable Recycled Water Network for the Building specified in the Green Infrastructure Notice or Contractor's First Notice (as the case may be).

(b) The Contractor and the Land Owner acknowledge and agree that Council will not be liable to the Contractor or the Land Owner for any loss or damage suffered by the Contractor or the Land Owner as a result of the Council giving the Contractor and the Land Owner a Council Withdrawal Notice under clause 5.5(a).

(c) If on the date 60 days after the DA Expiry Date:

(i) the Contractor has not lodged the Development Application for the Building specified in the relevant Green Infrastructure Notice or Contractor's First Notice (as the case may be); and

(ii) Council has not given the Contractor a Council Withdrawal Notice,

then the Contractor must (at a time determined by the Contractor in the Contractor's absolute discretion) give Council another Contractor's First Notice for that Building and clauses5.3, 5.4 and 5.5 apply again in respect of that Contractor's First Notice.

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6. Contractor Green Infrastructure notification provisions

6.1 Not used

6.2 Non-Potable Recycled Water Network

(a) Prior to the issue of the Construction Certificate for a Building, and not less than 90 days prior to the relevant Delivery Commencement Date, the Contractor must give a Notice to Council advising:

(i) **(Non-Potable Recycled Water Room)** - the approximate size of the space in the Building that will contain part of the Non-Potable Recycled Water Network that may be Delivered and Connected by Council;

(ii) **(Flow Quality)** – the Contractor's requirements for flow in the Non-Potable Recycled Water Network for the approval of Council (not to be unreasonably withheld); and

(iii) **(Easement Sites)** - the approximate easement sites for the easements required to be created by the Contractor for the Non-Potable Recycled Water Network under Table 4 of the Contributions Schedule.

(b) The Contractor must provide Council with the Design Reports and Plans for the Contribution GI Works associated with the Non-Potable Recycled Water Network no less than 90 days prior to the relevant Delivery Commencement Date.

(c) The specifications for the Non-Potable Recycled Water Room, the Non-Potable Recycled Water Network and the easements sites contained in the notice in clause 6.2(a) must be in accordance with the specifications for those items contained in the GI Connections Specifications and must not be inconsistent with the arrangements in the Green Infrastructure Delivery and Connection Arrangements.

7. Delivery and Connection of Green Infrastructure

7.1 Not used

7.2 Non-Potable Recycled Water Network

(a) Council may only:

(i) Deliver the Non-Potable Recycled Water Network during the period commencing on the Delivery Commencement Date and ending on the Delivery Completion Date in the table in clause 7.2(e) below; and

(ii) Connect the Non -Potable Recycled Water Network during the period commencing on the Connection Commencement Date and ending on the Connection Completion Date set out in clause 7.2(e) below.

(b) The Contractor must facilitate Connection of the Non-Potable Recycled Water Network to the Non-Potable Recycled Water Network during the period commencing on the Connection Commencement Date and ending on the Connection Completion Date set out in clause 7.2(e) below.

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(c) If Council fails to Deliver the Non-Potable Recycled Water Network by the Delivery Completion Date then clauses 7.7 and 11.1 will apply.

(d) If Council Delivers the Non-Potable Recycled Water Network by the Delivery Completion Date, but fails to Connect the Non-Potable Recycled Water Network by the Connection Completion Date then clauses 7.7 and 11.1 will apply.

(e) Unless otherwise agreed by the Parties, the Delivery Completion Date and Connection Completion Date for the Non-Potable Recycled Water Network are as follows:

Green Infrastructure	Delivery Commencement Date	Delivery Completion Date	Connection Commencement Date	Connection Completion Date
Non-Potable Recycled Water Network	The later of: (a) the date the Contractor gives Notice to Council of the completion of construction of the car park structure; and (b) 7 months prior to the Expected Completion Date, but not less than 1 month prior to the Delivery Completion Date.	5 months prior to the Expected Completion Date.	Same as the Delivery Commencement Date.	Same as the Delivery Completion Date.

7.3 Not used

7.4 Not used

7.5 Not used

7.6 Not used

7.7 Failure to Deliver and Connect within the relevant Council Construction Periods

If Council has not, either:

(a) Delivered Green Infrastructure in a Building prior to the Delivery Completion Date as required under clause 7.2 ; or

(b) Connected Green Infrastructure prior to the Connection Completion Date as required under clause 7.2,

then:

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(c) Council must, on and from the Delivery Completion Date (if clause 7.7(a) applies) or on and from the Connection Completion Date (if clause 7.7(b) applies):

(i) suspend the construction, Delivery or Connection (as applicable) of that Green Infrastructure;

(ii) leave that part of the Building (including the Site) used and accessed by Council and Council's contractor for the purposes of construction, Delivery and Connection of Green Infrastructure under this Deed in a safe, clean and tidy condition; and

(iii) ensure that the Green Infrastructure and all other materials associated with the Green Infrastructure and Green Infrastructure Works are not visible external to the space provided in the Building for the Green Infrastructure; and

(d) Council cannot access the Land (including the Site and Building) prior to the Completion Date.

7.8 Indemnity

Subject to clause 14.2, Council indemnifies the Contractor and the Land Owner against any liability of the Contractor or Land Owner under the Home Building Act 1989 (NSW) for construction work undertaken on the Land to any owner or owners of the Land arising out of the Delivery and Connection of the Green Infrastructure by Council, except to the extent caused or contributed to by a negligent or wrongful act or omission of the Contractor, the Land Owner or their officers, agents, employees, licensees or contractors contributed to the liability.

8. Council Road Works

(a) Unless otherwise agreed by the Parties, Council must use its reasonable endeavours to construct and complete (except for minor defects or omissions) the Council Road Works in accordance with the Contractor's Development Program.

(b) Council acknowledges and agrees that:

(i) the Contribution Lands on which the Council Road Works are to be constructed will have been Remediated by the Contractor in accordance with this Deed, subject to the Contractor's obligations under this Deed in respect to the Contribution Lands; and

(ii) having regard to the dilapidation report in the Contractor's Remediation Statement, Council must maintain, and if removed or damaged by Council then replace, the capping installed by the Contractor.

9. Project Land

9.1 Land Owner and Contractor to grant Council access

(a) The Land Owner and Contractor grant to Council and Council's authorised representatives a non-exclusive licence, without payment of rent, licence fee or other occupation payment by the Council, to use and access that part of the Land, including the Site, that is:

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(i) owned or under the control of the Land Owner or Contractor from time to time; and

(ii) reasonably required by the Council and Council's authorised representatives for the purposes of satisfying Council's obligations under this Deed including:

A. the construction, Delivery and Connection of the Green Infrastructure; and

B. carrying out the Council Road Works.

(b) This licence immediately terminates in respect of any part of the Land which the Land Owner or Contractor no longer own or control.

(c) Council, when exercising its rights under the licence granted under this clause, must:

(i) cause as little damage as reasonably possible;

(ii) where any damage is caused, restore the Land and any improvements on the Land to their condition as at commencement of occupation by the Council and Council's contractors;

(iii) minimise disruption to the use of the Land, including use of the Land by the Land Owner, the Contractor (including the carrying out by the Contractor of the Contribution GI Works and the Development) and anyone else lawfully on the Land;

(iv) comply with the Contractor's work hours, lighting, insurance, work health and safety requirements (to the extent that these requirements do not infringe any Laws, do not have a material impact on the Development Program and are not inconsistent with any Approval (including the Development Consent) and the reasonable requirements of the Land Owner and Contractor under this Deed);

(v) comply with all reasonable directions of the Contractor or Land Owner's site co-ordinator;

(vi) comply with all relevant Laws including the *Work Health and Safety Act* 2011 and *Work Health and Safety Regulations* 2017; and

(vii) comply with any site awards or conditions as applicable.

(d) Council indemnifies the Contractor and the Land Owner from and against damage, loss, injury and death caused by the negligence, default or unlawful acts of Council or any of Council's contractors while accessing the Land, except to the extent caused or contributed to by a negligent or wrongful act or omission of the Contractor, the Land Owner or their officers, agents, employees, licensees or contractors contributed to the liability.

(e) Any request for access by Council to the Land Owner and Contractor must be in writing and must be made at least 5 Business Days prior to access being granted to Council.

(f) Council must ensure that Council's contractors do not breach this clause 9.1.

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(g) The Land Owner and the Contractor may, acting reasonably, instruct Council to remove a contractor of Council, equipment or materials from the Land, and may exclude that contractor from the Land in the case of breach of this clause 9.1.

(h) Council acknowledges that the Land Owner and the Contractor are not responsible for supervising or co-ordinating the Green Infrastructure Works, nor has the Land Owner or Contractor undertaken any obligation or assumed any duty of care in respect of the Green Infrastructure Works.

9.2 Cooperation of the parties

Without limiting clause 9.1, the parties each agree in exercising their rights under this Deed:

(a) to cause minimal disturbance and disruption to:

(i) the Green Infrastructure Works;

(ii) the Delivery and Connection by Council of the Green Infrastructure;

(iii) the construction by Council of the Council Road Works;

(iv) the carrying out by the Contractor of the Contribution GI Works and the Development; and

(v) anyone else who is lawfully entitled to be on the Land;

(b) if:

(i) Council accesses the Land for the purpose of constructing the Green Infrastructure or Delivering and Connecting the Green Infrastructure; or

(ii) the Land Owner or the Contractor access any part of Green Square (other than the Land) for the purpose of carrying out the Contribution GI Works,

to:

(iii) cause minimal disturbance and disruption to the Contractor's and Land Owner's use of the Land or Council's use of Green Square (other than the Land) (as applicable); and

(iv) comply with the Land Owner's and Contractor's or Council's reasonable site specific and work, health and safety protocols (as applicable); and

(c) to fully cooperate with other contractors working on the Site and not interfere with the other contractors to execute their work.

9.3 Security

In respect of each Building, until the Completion Date the Contractor must provide such security measures as are reasonably necessary for the protection of the Green Infrastructure located on the Site against theft, vandalism, unauthorised entry into the Site and any other unlawful acts.

9.4 Insurance

(a) Council must:

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(i) effect and maintain, or ensure that its contractors effect and maintain, in connection with the Green Infrastructure Works, contract works insurance, public liability insurance and workers compensation insurance as required by Law; and

(ii) provide to the Land Owner and Contractor, upon request, certificates of currency in respect of those insurances.

(b) To the extent that Council's contractors are not covered by the insurances of Council, Council must procure that Council's contractors comply with clause 9.4(a).

9.5 Easements

The parties acknowledge that:

(a) this Deed requires the Contractor to procure the grant to Council of easements over the Site for the purpose of constructing, Delivering and Connecting, operating and maintaining the Green Infrastructure; and

(b) if Council does not procure the construction of, or Deliver and Connect, the Green Infrastructure during the term of the licence granted under clause 9.1, Council may, subject to the terms of the easements, gain access to the Site pursuant to the easement in order to do so.

10. Work health and safety

10.1 Protection of persons and property

Council must:

(a) Deliver and Connect the Green Infrastructure; and

(b) ensure that its contractors construct, Deliver and Connect the Green Infrastructure on the Site,

safely and so as to avoid injury to persons and damage to property.

10.2 Work health and safety

(a) In this clause:

(i) "**WHS Legislation**" means legislation relating to health and safety at work including the *Work Health and Safety Act* 2011 (NSW) and the *Work Health and Safety Regulations* 2017 (NSW); and

(ii) the terms "**construction project**" and "**principal contractor**" have the same meanings assigned to those terms under the WHS Legislation.

(b) The parties acknowledge that:

(i) the Green Infrastructure Works and the Contribution GI Works constitute separate and distinct construction projects;

(ii) to the extent the Green Infrastructure Works is a construction project, Council is the principal contractor for the Green Infrastructure Works unless it engages another person or entity as Principal Contractor; and

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(iii) to the extent the Contribution GI Works is a construction project, the Contractor is the principal contractor for the Contribution GI Works unless it engages another person or entity as Principal Contractor.

11. Completion Date

11.1 Arrangements for Green Infrastructure

(a) If Council:

(i) is obliged to use its reasonable endeavours to Deliver and Connect any part of the Green Infrastructure under clause 4.1(b) and either:

A. Council fails to Deliver the Green Infrastructure by the relevant Delivery Completion Dates;

B. Council Delivers the Green Infrastructure by the relevant Delivery Completion Dates, but fails to Connect the Green Infrastructure by the relevant Connection Completion Dates; or

then the parties acknowledge that the owner or owners of the relevant Building or any part of the Building may, at its own Cost, utilise the town water (potable) through the pipes comprising the Non-Potable Recycled Water Network constructed by the Contractor in the Building.

11.2 After strata plan registration

The Council acknowledges and agrees that, following registration of the strata plan for a Building, the Land Owner will no longer be the registered proprietor of that part of the Land and, as a result:

(a) Council, the Land Owner and the Contractor cannot require the Owners Corporation to connect to the Green Infrastructure; and

(b) from the date of registration of the strata plan for each Building, Council can liaise with the Owners Corporation in respect of:

(i) if the Green Infrastructure has not already been Delivered and Connected prior to registration of the strata plan, the Delivery and Connection of the Green Infrastructure to the Building; and

(ii) the ongoing operation and maintenance of the Green Infrastructure.

12. Not used

13. Not used

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14. Limitation of liability

14.1 Not used

14.2 No warranty or liability

For the avoidance of doubt, the parties agree and acknowledge that:

(a) Council may never:

(i) enter into an arrangement with a contractor for the construction of the Green Infrastructure; or

(ii) Deliver and Connect the Green Infrastructure during the relevant Council Construction Periods;

(b) Council will not be liable to the Contractor or the Land Owner for any loss or damage suffered by the Contractor or the Land Owner as a result of Council failing to:

(i) enter into an arrangement with a contractor for the construction of the Green Infrastructure; or

(ii) Deliver and Connect the Green Infrastructure during the relevant Council Construction Periods; and

(c) the limitations in this clause 14.2 do not limit any liability of Council under clause 9.1(d); and

(d) Council does not make any representations or warranties regarding the provision of electricity to the Land.

15. Not used

16. Not used

17. Not used

18. Land Owner's additional obligations under this Deed

In the event that either:

(a) the Contractor's rights to develop the Land pursuant to the legal arrangements it has with the Land Owner as at the date of this Deed are terminated; or

(b) the Land Owner becomes solely liable to perform the rights and obligations of both the Land Owner and Contractor under this Deed,

then on and from the date of such termination or the date the Land Owner becomes solely liable to perform the rights and obligations of both the Land Owner and Contractor under this

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Deed, the Land Owner agrees to perform all the Contractor's obligations under this Schedule in accordance with this Deed as if it were the Contractor for the purposes of this Deed, until such time as alternative arrangements are agreed (and legally documented) between the Council and the Land Owner in respect of a new contractor potentially performing some or all of those obligations.

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Annexure A - Green Infrastructure Delivery and Connection Arrangements

1. Non-Potable Recycled Water Network

1	Deliver a pipe from the pipe network for non-potable recycled water in the street to the Non Potable Water Connection Point located in the Non-Potable Recycled Water Room.
2	Deliver pipes, metering equipment and isolation valves for Non-Potable Recycled Water in the Non-Potable Recycled Water Room and size the infrastructure to meet the connection point specified by the Contractor within the Non-Potable Recycled Water Room. and size the infrastructure to meet the Building's Non-Potable Recycled Water flow rate requirements specified by the Contractor, and as agreed by Council in the Contractor's Notice under clause 6.2(a) of this Deed.
3	If the potable water system has been connected to the Non-Potable Recycled Water Network in the Building carry out such work as are required to: a) disconnect that potable town water system from the Non-Potable Recycled Water Network in the Building; and b) Connect the non-potable recycled water system to the Non-Potable Recycled Water Network in the Building.
4	The non-potable recycled water supply in the Non-Potable Recycled Water Network is to have a pressure of a minimum of 15 m head at the property boundary
5	The non-potable recycled water supply in the Non-Potable Recycled Water Network is to have a quality that will comply with the Australian Guidelines for Water Recycling for use in toilets, washing machine taps, car wash bays, cooling towers and irrigation usage. The level of total dissolved solids shall be in accordance with the Australian Guidelines for Water Recycling and be less than 300ppm 95% of the time.
6	Council will offer the Contractor or the Building owner (which may be an Owners Corporation) (as the case may be) a contract for the delivery of non-potable recycled water. In the case of the Contractor, the contract for delivery of Non-Potable Recycled Water for each Building must expire on the Completion Date for that Building and must include rates no greater than the rates offered by Sydney Water for potable town water as at the date of Council's offer.

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Executed as a deed.

Executed by **The Council of the City of Sydney ABN 22 636 550 790** by ~~or in the presence of:~~ AN AUTHORISED DELEGATE IN ACCORDANCE WITH SECTION 377 OF THE LOCAL GOVERNMENT ACT 1993 (NSW)

Signature of ~~director~~ WITNESS

Name of ~~director~~ in full
WITNESS

456 KENT STREET, SYDNEY

Signature of ~~secretary/other director~~
AUTHORISED DELEGATE

Name of ~~secretary/other director~~ in full
AUTHORISED DELEGATE

Executed by **Mirvac Green Square Pty Ltd ACN 131 815 079** in accordance with section 127 of the Corporations Act 2001 (Cth):

Signature of director

Shanna Lyn Souter

Full name of director

Signature of company secretary/~~director~~

Michelle Favelle

Full name of company secretary/~~director~~

Signed for and on behalf of **Landcom ABN 79 268 260 688** by its authorised signatory in the presence of:

See next page

Signature of witness

Full name of witness

Signature of authorised signatory

Full name of authorised signatory

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Signed, sealed and delivered for and on behalf of Landcom by its attorneys jointly under power of attorney Book 4794 No 700 dated 28 January 2022. By signing this document, each attorney certifies that they have no notice of revocation of such powers and authorities.

Signed in the presence of:

Signature of witness ←	Signature of attorney ←
Sylvia Kuzmiczenko ← Name of witness	Robert Yu ← Name of attorney
14/60 Station St E, Parramatta NSW 2150 ← Address of witness	Director, Legal ← Position of attorney

Signed in the presence of:

Signature of witness ←	Signature of attorney ←
Sylvia Kuzmiczenko ← Name of witness	Chris Clark ← Name of attorney
14/60 Station St E, Parramatta NSW 2150 ← Address of witness	Senior Solicitor ← Position of attorney

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Explanatory Note

Draft Planning Agreement

Under s7.4 of the *Environmental Planning and Assessment Act 1979*

Parties

The Council of the City of Sydney ABN 79 268 260 688 of 456 Kent Street Sydney NSW (**Council**)

Mirvac Green Square Pty Ltd ABN 131 815 079 of Level 26, 60 Margaret Street Sydney NSW (**Contractor**)

Landcom ABN 79 268 260 688 of Level 14, 60 Station Street, Parramatta NSW (**Land Owner**)

Description of the Land to which the Draft Planning Agreement Applies

Land means the part of Lot 1 in DP1199427 (being folio identifier 1/1199427) generally shown as '12' in the Stages 4 and 5 Land Plan in the Draft Planning Agreement and any lot created by Subdivision of that lot (including the Development Sites).

Description of Proposed Development

Development means the development and use of the Land as permitted by the LEP, including but not limited to subdivision, low, medium and high density residential housing, commercial development, retail development, car parking, roads, utilities, associated services and open space.

Summary of Objectives, Nature and Effect of the Draft Planning Agreement

Objectives of Draft Planning Agreement

The objective of the Draft Planning Agreement is to provide infrastructure, facilities and services to meet the Development, monetary contributions and dedication of land.

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Nature of Draft Planning Agreement

The Draft Planning Agreement is a planning agreement under s7.4 of the *Environmental Planning and Assessment Act 1979 (Act)*. The Draft Planning Agreement is a voluntary agreement under which development contributions are made by the Contractor for various public purposes (as defined in s7.4(2) of the Act).

Effect of the Draft Planning Agreement

The Draft Planning Agreement:

- relates to the carrying out by the Contractor of the Development,
- excludes the application of s7.11 and s7.12 of the Act to the Development,
- does not exclude the application of s7.24 of the Act to the Development,
- requires payment of monetary contributions, dedication of land and carrying out of works.
- is to be registered on the title to the Land,
- imposes restrictions on the Contractor transferring the Land or part of the Land or assigning an interest under the agreement,
- provides a dispute resolution method for a dispute under the agreement,
- provides that the agreement is governed by the law of New South Wales, and
- provides that the *A New Tax System (Goods and Services Tax) Act 1999* (Cth) applies to the agreement.

Assessment of the Merits of the Draft Planning Agreement

The Planning Purposes Served by the Draft Planning Agreement

The Draft Planning Agreement:

- promotes and co-ordinates of the orderly and economic use and development of the Land to which the agreement applies,
- provides land for public purposes in connection with the Development,
- provides and co-ordinates community services and facilities in connection with the Development,
- promotes ecologically sustainable development, and
- provides increased opportunity for public involvement and participation in environmental planning and assessment of the Development.

How the Draft Planning Agreement Promotes the Public Interest

The Draft Planning Agreement promotes the public interest by promoting the objects of the Act as set out in s1.3(a), (c) and (i) of the Act.

For Planning Authorities:

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How the Draft Planning Agreement Promotes the guiding principles for councils in section 8A of the Local Government Act 1993 (previously the Elements of the Council's Charter)

The Draft Planning Agreement promotes the guiding principles for councils by:

- providing services and facilities for the community,
- ensuring the public facilities provided by the Developer under the agreement are transferred to and managed by the Council or are otherwise subject to the Council's control,
- ensuring the Land is developed in a manner that is consistent with and promotes the principles of ecologically sustainable development,
- providing a means that allows the wider community to make submissions to the Council in relation to the agreement.

Whether the Draft Planning Agreement Conforms with the Authority's Capital Works Program

Yes. The Planning Agreement confirms with the Council's capital works program.

Whether the Draft Planning Agreement specifies that certain requirements must be complied with before issuing a construction certificate, subdivision certificate or occupation certificate

Yes, the draft Planning Agreement requires certain development contributions to be provided before the issuing of Part 6 Certificates.

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NSW Land Registry Services
Level 30, 175 Liverpool Street Sydney NSW 2000
GPO Box 15, Sydney NSW 2001
P (02) 8776 3575
E eConveyancingNSW@nswlrs.com.au
www.nswlrs.com.au

Lodgment Rules Exception Form

This form must be lodged with every Dealing with Exception and Miscellaneous Dealing (Miscellaneous Document) form, as defined in the Lodgment Rules.

Please accept this scanned paper dealing, as an eligible exception under Rules 5 or 10 of the Lodgment Rules (version 2), that has been lodged as either a:

1. Dealing with Exception form; or
2. Miscellaneous Dealing (Miscellaneous Document) form

Lodgment Rules exception number: * 46

**Insert, from the Lodgment Rules exceptions list, the exception number relied on to use the Dealing with Exception form or Miscellaneous Dealing (Miscellaneous Document) form.*

The Lodgment Rules exception list is published on the Office of the Registrar General Lodgment Rules webpage:
https://www.registrargeneral.nsw.gov.au/publications/lodgment-rules

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Lodger Details

Lodger Code	505966M
Name	LINDSAY TAYLOR LAWYERS
Address	L 9, SE 3, 420 GEORGE ST SYDNEY 2000
Lodger Box	1W
Email	FRANCES.TSE@LINDSAYTAYLORLAWYERS.COM.AU
Reference	LAN20003 - STAG

Land Registry Document Identification

AS716030

STAMP DUTY:

Request (11R)

Jurisdiction NEW SOUTH WALES

Privacy Collection Statement

The information in this form is collected under statutory authority and used for the purpose of maintaining publicly searchable registers and indexes.

Land Title Reference	Part Land Affected?	Land Description
11/1225135	N	

Applicant

LANDCOM

State/Territory government or body

Document Type

Request (11R)

The subscriber requests the Registrar-General to make any necessary recording in the Register to give effect to this instrument, in respect of the land or interest described above.

Attachment

See attached Dealing

Execution

The Certifier has taken reasonable steps to verify the identity of the applicant or his, her or its administrator or attorney.

The Certifier holds a properly completed Client Authorisation for the Conveyancing Transaction including this Registry Instrument or Document.

The Certifier has retained the evidence supporting this Registry Instrument or Document.

The Certifier has taken reasonable steps to ensure that this Registry Instrument or Document is correct and compliant with relevant legislation and any Prescribed Requirement.

Executed on behalf of	LANDCOM
Signer Name	WING YEE TSE
Signer Organisation	LTL PTY LIMITED
Signer Role	PRACTITIONER CERTIFIER
Execution Date	13/12/2022

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Form: 11R
Release: 4·4

REQUEST

New South Wales
Real Property Act 1900

Leave this space clear. Affix additional pages to the top left-hand corner.

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises the Registrar General to collect the information required by this form for the establishment and maintenance of the Real Property Act Register. Section 96B RP Act requires that the Register is made available to any person for search upon payment of a fee, if any.

All Statutory Declarations and evidence that are lodged in support of land dealings will be treated as publicly accessible and will be disclosed to persons upon request.

STAMP DUTY — Insert Duties Assessment No. as issued by Revenue NSW Office.
Duties Assessment No.

(B) **TORRENS TITLE** — 11/1225135

(C) **REGISTERED DEALING**

Number	Torrens Title

(D) **LODGED BY**

Document Collection Box	Name, Address or DX, Telephone, and Customer Account Number if any	CODE
	Lindsay Taylor Lawyers Level 9, Suite 3, 420 George Street, Sydney NSW 2000 Tel: (02) 8235 9700 Email: frances.tse@lindsaytaylorlawyers.com.au Reference: LAN20003	R

(E) **APPLICANT** — Landcom ABN 79 268 260 688

(F) **NATURE OF REQUEST** — Registration of Planning Agreement pursuant to s7.6 Environmental Planning and Assessment Act 1979

(G) **TEXT OF REQUEST**

The Applicant as registered proprietor of the land identified at (B) requests the registration of the Green Square Town Centre - Stage 5 Planning Agreement signed by The Council of the City of Sydney, Landcom and Mirvac Green Square Pty Ltd and dated 30 November 2022. A copy of the Planning Agreement is at Annexure A.

DATE 12 December 2022

(H) Certified correct for the purposes of the Real Property Act 1900 on behalf of the applicant by the person whose signature appears below.

Signature: Frances

Signatory's name: Wing Yee Tse
Signatory's capacity: solicitor

(I) *This section is to be completed where a notice of sale is required and the relevant data has been forwarded through eNOS.*

The applicant certifies that the eNOS data relevant to this dealing has been submitted and stored under eNOS ID No. [ ] Full name: Signature:

** s117 RP Act requires that you must have known the signatory for more than 12 months or have sighted identifying documentation.*

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Annexure A to Request

Planning Agreement

Green Square Town Centre - LML Development – Stage 5

The Council of the City of Sydney
Council

Mirvac Green Square Pty Ltd
Contractor

Landcom
Land Owner

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Planning Agreement made at Sydney **on** 30 November **2022**

Parties

The Council of the City of Sydney ABN 22 636 550 790 of 456 Kent Street Sydney NSW **(Council)**

Mirvac Green Square Pty Ltd ACN 131 815 079 of Level 28, 200 George Street, Sydney NSW **(Contractor)**

Landcom ABN 79 268 260 688 of Level 14, 60 Station Street, Parramatta NSW **(Land Owner)**

Background

A. The Land Owner owns the Land and has consented to the Contractor carrying out the Development on the Land.

B. The Contractor intends to carry out the Development on the Land.

C. The Contractor and the Land Owner sought a change to an environmental planning instrument (which following gazettal became the LEP) which resulted in the Green Square Town Centre Land being rezoned.

D. The LEP commenced on 13 September 2013.

E. Under this Deed the Land Owner and the Contractor are to pay monetary contributions, or provide other material public benefits, or a combination of them, in connection with the Development on the Land on the terms and conditions of this Deed.

F. The GI Provisions set out rights and obligations of the Parties relating to the provision of Green Infrastructure by Council with the intention that such Green Infrastructure will be connected to Buildings in the Development on the Land.

Operative provisions

1. Interpretation

1.1 Definitions

The following words have these meanings in this Deed unless the contrary intention appears:

Access Plan means the plan in Schedule 18.

Adjustment Date means each 30 June every year after 20 August 2013.

Appeal means an appeal (including an application for any kind of leave to appeal) in a Court of competent jurisdiction against the decision of a lower court.

Appeal Notice means:

(a) in proceedings in the Court of Appeal:

(i) an application for leave to Appeal;

(ii) a Notice of Intention to Appeal; or

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(iii) if a valid Notice of Intention to Appeal has been lodged, a Notice of Appeal; and

(b) in proceedings in the High Court, an application for Special Leave to Appeal.

Application means an application for any Approval.

Approval means any approvals, consents, certificates, permits, endorsements, licences, conditions or requirements (and any modifications or variations to them) which may be required by Law for the commencement and carrying out of the Contributions Works or the Development generally and includes a Development Consent or other approval under the EP&A Act (or modification of that approval).

Area means those lots on the Land and on the Green Square Town Centre Land shown on Map 2 of Schedule 3 which are not Development Sites.

Australian Drinking Water Guidelines means the publication of the same name by the National Health and Medical Research Council and Natural Resource Management Ministerial Council (2011).

Australian Guidelines for Water Recycling means:

(a) the Australian Guidelines for Water Recycling: Managing Health and Environmental Protection Heritage Council, Natural Resource Management Ministerial Council and Australian Health Ministers Conference (2005); and

(b) Australian Guidelines for Water Recycling: Stormwater Harvesting and Reuse Phase 2 by the Environment Protection and Heritage Council, Natural Resource Management Ministerial Council and Australian Health Ministers Conference (2009).

Authority means any governmental, semi-governmental, administrative, fiscal or judicial body, department, commission, authority, tribunal, agency or entity and includes an accredited certifier accredited under the *Building Professionals Act* 2005.

Bank Bill Rate means the average bid rate for Bills having a tenor of 90 days as displayed on the "BBSY" page of the Reuters Monitor System on the day the relevant payment is due (**Due Date**). However, if the average bid rate is not displayed by 10:30 am on the Due Date or if it is displayed but there is an obvious error in that rate, **Bank Bill Rate** means:

(a) the rate the Council calculates as the average of the bid rates quoted at approximately 10:30 am on that day by each of five or more institutions chosen by the Council which provide rates for display on the "BBSY" page of the Reuters Monitor System for Bills of a 90 day tenor which are accepted by that institution (after excluding the highest and the lowest, or in the case of equality, one of the highest and one of the lowest bid rates); or

(b) where the Council is unable to calculate a rate under paragraph (a) because it is unable to obtain the necessary number of quotes, the rate set by the Council in good faith at approximately 10:30 am on that day, having regard, to the extent possible, to the rates otherwise bid for Bills of a 90 day tenor at or around that time.

The rate calculated or set must be expressed as a percentage rate per annum and be rounded up to the nearest fourth decimal place.

The Council may calculate a rate under paragraph (a) or (b) before 11:00 am on the Due Date, but if the average bid rate appears on the "BBSY" page by 11:00 am and there is no obvious

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error in it, the "BBSY" page rate applies as the **Bank Bill Rate** under this Deed despite any calculation by the Council under paragraph (a) or (b).

Best Industry Practice means the exercise of that degree of professional skill, diligence, and prudence that reasonably would be expected from competent persons performing tasks and functions similar in nature to the Contribution Works and consistent with the Law.

Bills means a bill of exchange as defined in the *Bills of Exchange Act* 1909 (Cth), but does not include a cheque.

Bond means a documentary performance bond which must be denominated in Australian dollars and be an unconditional undertaking with all the following requirements. It must:

(a) be signed and issued by an Australian Prudential Regulation Authority (**APRA**) regulated authorised deposit taking institution or an insurer authorised by APRA to conduct new or renewal insurance business in Australia;

(b) have at all times an investment grade security rating from an industry recognised rating agency of at least:

(i) BBB + [Standard & Poors and Fitch]; or

(ii) Baa 1 [Moodys]; or

(iii) bbb [Bests].

(c) be issued on behalf of the Land Owner;

(d) have no expiry or end date;

(e) have the beneficiary as the Council;

(f) be irrevocable;

(g) state either individually, or in total with other lodged compliant forms of the Bond, the relevant minimum amount required to be lodged as security; and

(h) state the purpose of the deposit required in accordance with this Planning Agreement.

Bond Amounts means the Remediation Bond Amount and the Contractor Road Works Bond Amount (as the case may be).

Bond Works means the Remediation Works and the Contractor Road Works (as the case may be).

Building means a building proposed to be constructed on the Land (which may be part of a stratum containing other buildings, that structure to be the subject of a deposited plan in respect of which a lot or lots are limited in height, depth or both), but excluding marketing suites and temporary buildings for retail purposes or other buildings which are not part of the LEP and which are not intended to remain on the Land indefinitely.

Business Day means any day except for Saturday or Sunday or a day which is a public holiday in Sydney.

Cash Deposit has the meaning given to that term in paragraph 6 of Schedule 10.

Cash Deposit Account has the meaning given to that term in paragraph 6 of Schedule 10.

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CEO means the Chief Executive Officer or the person acting in that role for each of the Council, the Contractor and the Land Owner.

Certificate of Practical Completion has the meaning given to that term in paragraph 1.17 of Schedule 4.

Certifier means:

(a) such person or persons with the appropriate qualifications and accreditation to provide the required certification and appointed by the Contractor (at its cost);

(b) in the case of the Contribution GI Works only, such person or persons with the appropriate qualifications agreed by the Council and the Contractor to certify the Contribution GI Works and jointly appointed by the Contractor and the Council (at the Contractor's cost); and

(c) in the case of the Remediation Works, the Site Auditor.

The Certifier may be, but is not necessarily, the private certifying authority for the Development.

Completion Date means, in respect of a Building:

(a) the date on which a strata plan is registered in respect of that Building; or

(b) if the Building is not to be immediately the subject of a strata scheme, the date on which the first Occupation Certificate for that Building is issued.

Compliance Certificate means a certificate referred to in section 6.4(e) of the Act.

Connect means connect the relevant Green Infrastructure for a Building to the relevant Contribution GI Works in each Building, and the terms **Connection** and **Connected** will be construed accordingly.

Consent Authority means, in relation to an Application, the Authority having the function to determine the Application.

Consequential Loss means any loss of profit, loss of revenue, loss of business opportunity or goodwill, loss of any contract or any indirect loss.

Construction Certificate means a certificate issued under section 6.4(a) of the EP&A Act.

Construction Cost means the Costs of and directly attributable to the performance of the Bond Works including:

A. preparation of design and construction drawings for the Bond Works;

B. cost of materials used or installed (as the case may be) as part of the Bond Works; and

C. labour, equipment hire and other Costs directly associated with the excavation, Remediation Works, and construction of the Contractor Road Works (as applicable).

Contamination has the same meaning as in the *Contaminated Lands Management Act 1997.*

Contractor's First Notice means the notice to be given by the Contractor under clause 5.1 of the GI Provisions.

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Contractor Remediation Statement has the meaning given to this term in clause 1.28(a)(ii)(B) of Schedule 4.

Contractor Road Works means the road works carried out in Areas 6, 7 and 4B referred to in Part 3 of Table 3 of the Contributions Schedule.

Contribution Amount means the amounts of a monetary contribution to be paid by the Contractor as described in Table 1 of the Contributions Schedule.

Contribution GI Works means the works to be undertaken by the Contractor as described in Table 4 of the Contributions Schedule.

Contribution GI Works Bond means the Bond to secure:

(a) the Practical Completion of the Contribution GI Works in accordance with Schedule 3.

(b) rectification of any defects and omissions (if any) of the Contribution GI Works during the Defects Liability Period.

Contribution GI Works Bond Amount means $50,000 for each Building as increased by CPI in accordance with paragraph 1.3 of Schedule 10.

Contribution Land means that part of the Land shown in Map 2 – Contribution Land in Schedule 3, such land to be transferred by the Land Owner to the Council in accordance with Table 2 of the Contributions Schedule and Paragraph 1.2 of Schedule 5

Contribution WIK means the works to be undertaken by the Contractor as described in Table 3 of the Contributions Schedule.

Contribution WIK Portion means each part of the Contribution WIK set out separately in Table 3 of the Contributions Schedule.

Contribution Works means each of the Contribution GI Works and the Contribution WIK.

Contribution Works Portion means each part of the Contribution Works set out separately in Table 3 and Table 4 of the Contributions Schedule.

Contributions means the Contribution Amount, the Contribution Land and the Contribution Works and the provision of material public benefits, all as provided for in the Contributions Schedule of this Deed.

Contributions Schedule means the table and notes included in Schedule 3.

Costs includes all costs, charges and expenses, including those incurred in connection with advisers.

Council Remediation Statement has the meaning given to this term in clause 1.28(a)(ii)(C) of Schedule 4.

Council Road Works means the road works to be carried out by Council, being the road works other than the Contractor Road Works shown on the plan in the Essential Infrastructure DA Plans.

Court means the New South Wales Land and Environment Court or any other court of competent jurisdiction.

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CPI means the Sydney Consumer Price Index (All Groups) published by the Commonwealth Statistician, or if that index no longer exists, any similar index which the Council determines in its sole discretion.

Dealing means selling, transferring, assigning, subdividing, mortgaging, charging, encumbering or otherwise dealing with the Land.

Dedicate means to lodge a registrable instrument at NSW Land Registry Services which, when registered is effective to transfer land to the Council and **Dedication** has a corresponding mean.

Deed means this deed.

Defects Liability Period means:

(a) in respect of a Contribution Works Portion other than the Contractor Road Works, the period of 12 months which commences on the date of Practical Completion of that Contribution Works Portion; and

(b) in respect of the Contractor Road Works, the period of 24 months which commences on the date of Practical Completion of the Contractor Road Works.

Deliver means design and install in each Building the relevant Green Infrastructure for that Building, and the terms **Delivery** and **Delivered** will be construed accordingly.

Determination Notice means a notice served by a party advising another party that a dispute will be referred to an Independent Expert for determination.

Development means the development described in paragraph 3 of Schedule 2.

Development Application means:

(a) each 'Development Application' as that term is defined in the EP&A Act; and

(b) each Application for a Modification.

Development Consent means:

(a) each 'Development Consent' as that term is defined in the EP&A Act or an approval under Part 5 of the EP&A Act; and

(b) each Modification.

Development Contributions Procedures means the development contribution procedures set out in Schedule 4 and Schedule 5 of this Deed.

Development Program means the development program prepared by the Contractor comprising Schedule 16, as may be updated from time to time, showing the dates by which, or the times within which, the various stages or portions of the Development on the Land are to be carried out or completed, including, but not limited to, the anticipated dates of issue of a Construction Certificate and an Occupation Certificate.

Development Site means each of the development lots on the Land identified in Map 1 of Schedule 3.

DRS means the Development Rights Scheme under the Green Square Infrastructure Strategy (2006), as indexed annually for inflation in accordance with movements in CPI, or any other similar scheme that replaces it.

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Encumbrance, in relation to any land, means any:

(a) security for the payment of money or performance of obligations, including a mortgage, charge, lien, pledge, trust, power or title retention;

(b) right, interest or arrangement which has the effect of giving another person a preference, priority or advantage over creditors including any right of set-off;

(c) right that a person (other than the owner) has to remove something from land (known as a profit à prendre), easement, public right of way, restrictive or positive covenant, lease, or licence to use or occupy; or

(d) third party right or interest or any right arising as a consequence of the enforcement of a judgment,

or any agreement to create any of them or allow them to exist, in respect of that land.

Environmental Consultant means the consultant engaged by the Contractor to prepare the Remediation Action Plan.

EP&A Act means the *Environmental Planning and Assessment Act* 1979 (NSW).

EP&A Regulation means the *Environmental Planning and Assessment Regulation* 2000 (NSW).

Essential Infrastructure DA means the Development Application D/2012/1175 for the construction of infrastructure as approved by the relevant consent authority in accordance with any related Approval.

Essential Infrastructure DA Plans means the plans lodged with Council at the time of execution of this Deed relating to the Essential Infrastructure DA.

Explanatory Note means the explanatory note relating to this Planning Agreement, as required by clause 25E of the EP&A Regulation, being Exhibit A.

GI Connections Specifications means the green infrastructure connection contained in Table 4 of the Contributions Schedule, as amended from time to time in accordance with this Deed or as otherwise agreed between the Parties.

GI Provisions means the provisions contained in Schedule 20 as they apply to the Land.

Green Infrastructure means infrastructure that can be operated on a precinct-scale that comprises:

(a) a non-potable recycled water network, comprising a water treatment plant and pipe network that connects to a non-potable recycled water reticulation system in the Buildings to supply the non-potable recycled water for certain uses including toilet flushing, car washing facilities, laundry (that satisfies the health regulations in respect of the cold water washing machine supply), air conditioning cooling towers and irrigation (**Non-Potable Recycled Water Network**), and

(b) a space cooling system (Space Cooling System),

located within public land and parts of the Land and as further particularised in the GI Connections Specifications and the GI Provisions, and the requirements in Table 4 of the Contributions Schedule including in respect of air-conditioning refrigerants.

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Green Square Town Centre Land means the land comprised in the lots described in paragraph 1 of Schedule 2 and any lots created by Subdivision of those lots (including the Development Site).

Gross Floor Area (GFA) has the same meaning as in the LEP.

GST has the meaning it has in the GST Act.

GST Act means the *A New Tax System (Goods and Services Tax) Act* 1999 (Cth).

GST Amount has the meaning given to that term in clause 14.

Habitable Space means any floor space capable of being inhabited as a dwelling or for commercial or retail purposes that is completed to a standard where it can be used for the purpose which it was intended.

Independent Expert has the meaning given to that term in paragraph 4 of Schedule 7.

Interest Rate in relation to interest payable on any payment due under this Deed means the rate which is the Bank Bill Rate plus a margin of 2% per annum.

Land means the land described in paragraph 2 of Schedule 2 or any subsequent Subdivision of those lots (including the Development Sites).

Law means:

(a) the common law including principles of equity; and

(b) the requirements of all statutes, rules, ordinances, codes, regulations, proclamations, by-laws or consents by an Authority.

Legal Costs means legal costs and expenses on a full indemnity basis or solicitor and own client basis, whichever is the higher.

Legal Challenge means proceedings in a Court in which a declaration that the LEP or Approval is invalid is sought, and includes, but is not limited to, any proceedings in which such a declaration is sought which are heard on remitter from another Court following an Appeal.

LEP means the *Sydney Local Environmental Plan (Green Square Town Centre) 2013* as amended from time to time .

Material Default means any default which substantially and adversely affects the Council's rights under this Planning Agreement.

Modification means a "modification" of the Development Consent within the meaning of section 4.55 of the EP&A Act.

Non-Potable Recycled Water Access Space has the meaning given to that term in Table 4 of the Contributions Schedule.

Non-Potable Recycled Water Network means the space contained in a Building that will accommodate the infrastructure associated with the Non-Potable Recycled Water System as particularised in the GI Connections Specifications and the GI Provisions.

Occupation Certificate means a certificate referred to in section 6.4(c) of the EP&A Act and which may be interim or final as provided for in section 109C(2) of the EP&A Act (as it was before its amendment in 2018).

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Original Stage 1-5 Planning Agreement means voluntary planning agreement titled 'Green Square Town Centre – LML Development' made between the Council, Landcom and the Land Owner dated 20 August 2013 (AH968097) and varied by the Deed of Variation of Planning Agreement entered into by those parties on 14 November 2014 (AJ381345).

Other Public Benefits means the other public benefits (other than the provision or delivery of the Contribution Works and the Contribution Lands) to be provided to Council by the Contractor or the Land Owner as required under this Deed as described in Table 5 of the Contributions Schedule.

Party means a party to this Deed, and includes that party's executors, administrators, successors and permitted assigns, including persons taking by way of novation and, in the case of a trustee, includes a substitutes or an additional trustee.

Permitted Encumbrance means each of:

(a) easements benefitting statutory authorities, encroachments authorised by Approvals and environmental management requirements;

(b) the Relevant Easements; and

(c) any of the following:

(i) an Encumbrance (other than a mortgage, charge, pledge, lien, security interest, title retention, contractual right of set-off, or any other security agreement or arrangement in favour of any person); and

(ii) such other agreement or arrangement,

the Council (acting reasonably) agrees in writing are permitted encumbrances..

Planning Agreement means this Deed.

Practical Completion means in relation to:

(a) each Contribution Works Portion except the Remediation Works, the point of time at which the relevant Certifier is satisfied, acting reasonably, that the whole of that Contribution Works Portion (as the case may be) has been completed and installed in accordance with all relevant Approvals and this Deed (except for minor defects or omissions); and

(b) the Remediation Works, provision to Council of the Contractor Remediation Statement, as defined in paragraph 1.28 of Schedule 4.

Quantity Surveyor means a registered quantity surveyor appointed by the City of Sydney and approved by the Contractor (acting reasonably).

Real Property Act means the *Real Property Act* 1900 (NSW).

Recipient has the meaning given to that term in clause 14.

Recipient Supply has the meaning given to that term in clause 14.

Register means the Torrens title register maintained under the Real Property Act.

Relevant Easements has the meaning given to that term in paragraph 1.1 of Schedule 5.

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Relevant Subdivision has the meaning given to that term in paragraph 1.1 of Schedule 5.

Remediation has the same meaning as in the *Contaminated Land Management Act* 1997 No. 140 (NSW).

Remediation Action Plan means the plan approved by a Site Auditor for the Remediation of that part of Land identified as Area 18 and Area 20 on Map 2 in Schedule 3 which may include by way of adoption and implementation of an environmental management plan, if required for the purpose of obtaining Development Consent.

Remediation Bond means the Second Remediation Bond.

Remediation Bond Amount means the Second Remediation Bond Amount.

Remediation Works means the Stage 1 Remediation and any other works required to be carried out by the Contractor in accordance with the Contributions Schedule to Remediate the Contributions Land.

Revised Bond Amounts has the meaning given to that term in paragraph 1.3 of Schedule 10.

Rezoning means the rezoning of the Land effected by the commencement of the LEP when first made.

Road Works Bond means the Bond to secure the:

(a) Practical Completion of the Contractor Road Works or a portion of the Contractor Road Works carried out on the Development Sites in accordance with Schedule 3 and the Planning Agreement; and

(b) rectification of any defects and omissions (if any) of the Contractor Road Works during the Defects Liability Period,

in accordance with this Deed.

Road Works Bond Amount means:

(c) for Area 6, $37,573 as increased by CPI in accordance with paragraph 1.3 of Schedule 10; and

(d) for Area 7, $32,484 as increased by CPI in accordance with paragraph 1.3 of Schedule 10.

Second Deed of Variation means the second deed of variation to the Original Stage 1-5 Planning Agreement to remove from the agreement all rights and obligations of the Parties in respect of the Stage 3 Land, the Stage 4 Land and the Land.

Second Remediation Bond means the Bond to secure:

(a) the Remediation Works for Area 4B in accordance with Schedule 3 and the Planning Agreement.

(b) rectification of any defects and omissions (if any) of the Remediation for each of those Areas during the Defects Liability Period.

Second Remediation Bond Amount means $77,587 as increased by CPI in accordance with paragraph 1.3 of Schedule 10:

Site Auditor has the same meaning as in *Contaminated Land Management Act* 1997 No 140 (NSW).

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Sites means that part of the Land shown and labelled on Map 1 - Site Identification Plan in Schedule 3.

Stage 1 Remediation has the meaning given to this term in clause 1.28 of Schedule 4.

Stage 2 Remediation has the meaning given to this term in clause 1.28 of Schedule 4.

Stage 3 Land means Lot 6 in DP1199427 and any lot created by Subdivision of that lot (including the relevant Development Sites).

Stage 4 Land means the part of the Green Square Town Centre Land comprised in the part of Lot 1 in DP1199427 (being folio identifier 1/1199427) generally shown as '12' in the Stages 4 and 5 Land Plan in Schedule 2, and any lot created by Subdivision of that lot (including the relevant Development Sites).

Stage 3 Planning Agreement means the planning agreement entered into between the Council and Mirvac Green Square Pty Ltd in respect of the Stage 3 Land dated on or about the date of this Deed.

Stage 4 Planning Agreement means the planning agreement entered into between the Council and Mirvac Green Square Pty Ltd in respect of the Stage 4 Land dated on or about the date of this Deed

Subdivision has the meaning given to "subdivision of land" in section 6.2 of the EP&A Act and **Subdivide** has a similar meaning.

Subdivision Certificate has the same meaning as in the EP&A Act.

Supplier has the meaning given to that term in clause 14.

Suspension Expiry Date means the date on which the Suspension Period ends.

Suspension Period means the period of time from and including the date on which a document initiating a Legal Challenge has been served on the Council and the Land Owner and ending on:

(a) subject to paragraphs (b) and (c), the date on which:

(i) the Legal Challenge is discontinued;

(ii) final orders (apart from any orders as to costs) are made in the Legal Challenge; or

(iii) for any other reason, the Legal Challenge no longer includes an application for a declaration that the LEP, Planning Agreement or Approval is invalid;

whichever is the earlier;

(b) subject to paragraph (c), if an Appeal Notice is filed and served in connection with final orders in the Legal Challenge or an Appeal from the Legal Challenge (apart from any orders as to costs), the date on which:

(i) the Appeal is discontinued;

(ii) final orders (apart from any orders as to costs) are made in the Appeal; or

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(iii) for any other reason, the Appeal no longer includes an appeal in respect of a Court decision regarding the validity of the LEP, Planning Agreement or Approval whichever is earlier,

unless the orders in the Appeal require the Legal Challenge to be remitted to another Court in relation to the validity of the LEP, in which case paragraph (a) re-applies; or

(c) the date which is 15 Business Days after the date on which the period of time allowed for filing an Appeal Notice described in paragraph (b) has expired, if no valid Appeal Notice has been filed and served by that first-mentioned date.

For the avoidance of doubt, the Suspension Period continues if paragraph (b) applies.

Taxes means taxes, levies, imposts, deductions, charges and duties (including stamp and transaction duties) excluding GST together with any related interest, penalties, fines and expenses in connection with them, except if imposed on, or calculated having regard to, net income of a person.

1.2 General

In this Deed:

(a) headings are for convenience only and do not affect interpretation;

and unless the context indicates a contrary intention:

(b) "**person**" includes an individual, the estate of an individual, a corporation, an authority, an association or a joint venture (whether incorporated or unincorporated), a partnership and a trust;

(c) a reference to a document (including this Deed) is to that document as updated, varied, novated, ratified or replaced from time to time;

(d) a reference to a statute includes its delegated legislation and a reference to a statute or delegated legislation or a provision of either includes consolidations, amendments, re-enactments, replacement and substitutions;

(e) a word importing the singular includes the plural (and vice versa), and a word indicating a gender includes every other gender;

(f) a reference to a party, clause, schedule, exhibit, attachment or annexure is a reference to a party, clause, schedule, exhibit, attachment or annexure to or of this Deed, and a reference to this Deed includes all schedules, exhibits, attachments and annexures to it;

(g) a reference to a schedule, exhibit, attachment or annexure to a clause, paragraph section, schedule, exhibit, attachment or annexure is a reference to a clause, paragraph, section, schedule, exhibit, attachment or annexure to or of that schedule, exhibit, attachment or annexure;

(h) if a word or phrase is given a defined meaning, any other part of speech or grammatical form of that word or phrase has a corresponding meaning;

(i) "**includes**" or "**such as**" in any form is not a word of limitation;

(j) a reference to "**$**" or "**dollar**" is to Australian currency;

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(k) **"contractor"** include suppliers and consultants;

(l) **"construction"** includes manufacture and installation;

(m) no rule of construction applies to the disadvantage of a party because that party was responsible for the preparation of this Deed; and

(n) any capitalised term used, but not defined in this Deed, will have the meaning ascribed to it under, and by virtue of, the EP&A Act.

2. Planning Agreement

2.1 Operation of Planning Agreement

(a) This Deed operates on and from the date that this Deed, the Stage 3 Planning Agreement, the Stage 4 Planning Agreement and the Second Deed of Variation to the Original Stages 1-5 Planning Agreement are fully executed. The Contractor and the Land Owner shall have no obligations whatsoever under this Deed until that time.

(b) The Council must notify the Land Owner and the Contractor immediately after the Council executes this Planning Agreement and promptly provide the Land Owner and the Contractor with the Planning Agreement as executed by the Council.

2.2 Planning agreement under the EP&A Act

This Deed constitutes a planning agreement within the meaning of section 93F of the EP&A Act.

2.3 Application of the Planning Agreement

This Deed applies to:

(a) the Land; and

(b) the Development on the Land.

3. Development Contributions

3.1 Payment or Delivery of Contributions

The Parties agree that:

(a) the Contractor must (at its Cost and risk) pay the Contribution Amounts to the Council in accordance with the Contributions Schedule;

(b) the Contractor must (at its Cost and risk) undertake the Contribution Works in accordance with the Contributions Schedule and Schedule 4 (as applicable);

(c) the Land Owner must (at its Cost and risk) transfer the Contribution Land in accordance with the Contributions Schedule and Schedule 5 to the Council (or such other person as the Council may reasonably direct); and

(d) the Land Owner and/or the Contractor (as applicable) must (at its Cost and risk) provide the Other Public Benefits in accordance with the Contributions Schedule,

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and otherwise in accordance with the provisions of this Deed.

4. Application of s7.11, 7.12 and 7.24 of the EP&A Act

(a) The application of sections 7.11 and 7.12 of the EP&A Act are excluded to the extent stated in Schedule 1.

(b) The Council acknowledges that:

(i) contributions under the DRS are excluded to the extent that they apply to the Development carried out on the Land;

(ii) all things necessary to satisfy the requirements of the DRS have been done and nothing further is required to be done to satisfy the requirements of the DRS in connection with the Development on the Land; and

(iii) sections 7.11,7.12 and 7.24 of EP&A Act do not apply to the DRS;

(c) The Contractor and the Land Owner acknowledge that any affordable housing contributions under any relevant planning instrument are not excluded.

(d) The Council will do all things reasonably necessary to exclude the application of the DRS to the Development and ensure that the Contractor and the Land Owner are not liable to satisfy any further requirements of the DRS in connection with the Development

5. Caveat

The Land Owner acknowledges and agrees that:

(a) when this Deed is executed by the Contractor and the Land Owner (whether or not the Council has executed this Deed), the Council is deemed to have acquired, and the Land Owner is deemed to have granted, an equitable estate and interest in the Land for the purposes of section 74F(1) of the Real Property Act and consequently the Council has a sufficient interest in the Land in respect of which to lodge with the NSW Land Registry Services a caveat notifying that interest; and

(b) subject to clause 7, the Council may lodge a caveat on the Land to prevent any Dealing with the Land or any part of it in a manner which is inconsistent with this Deed and the Land Owner will not object to and consents to the Council lodging a caveat in the relevant folio of the Register for the Land nor will it seek to remove any caveat lodged by the Council provided the caveat does not prevent or delay the registration of this Deed in accordance with clause 6.

6. Registration of this Deed

6.1 Ownership of the Land

The Land Owner represents and warrants that it is the legal and beneficial owner of the parts of the Land not dedicated or already developed or transferred to Council or sold as contemplated by this Deed.

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6.2 Registration on title

The Land Owner agrees to procure as soon as practicable the registration of this Deed in the relevant folio of the Register for the Land in accordance with section 7.6 of the EP&A Act and in accordance with Schedule 8.

7. Release and Discharge

The Council agrees to release and discharge this Deed and remove any caveat lodged by the Council pursuant to clause 5 on the release and discharge terms contained in Schedule 9.

8. Breaches to be rectified

If the Council considers that the Land Owner or the Contractor has defaulted on the performance of any of their respective obligations under this Deed, then the Council may give written notice to the Land Owner and the Contractor which:

(a) identifies the nature of the breach; and

(b) provides at least 20 Business Days (except in the case of an emergency or where there is an issue of public safety where less time may be specified) with which the Land Owner or the Contractor (as applicable) must rectify that breach and what action must be taken to rectify that breach.

9. Additional Security

The Contractor has agreed to provide security (in the form of Bonds) to the Council for performance of its obligations under this Deed on the terms and conditions of Schedule 10.

10. Assignment and other dealings

The Parties agree that provisions of Schedule 11 apply in relation to any proposed assignment or dealing in relation to the Land (or any part of it) or of a Party's interest in this Deed.

11. Review of Deed

The Parties may agree to review this Deed. Any review or modification will be conducted in the circumstances and in the manner determined by the Parties.

12. Dispute resolution

The Parties agree that any disputes under or in relation to this Deed will be resolved in accordance with the procedures set out in Schedule 7.

13. Overdue payments

13.1 Interest on overdue money

The Contractor and the Land Owner each agree to pay interest to the Council on any amount payable by it under this Deed from when it becomes due for payment, during the period that it remains unpaid, on demand or at times determined by the Council, calculated on daily balances. The rate to be applied to each daily balance is the Interest Rate.

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13.2 Compounding

Interest which is not paid when due for payment may be capitalised by the Council on the first day of each month. Interest is payable on capitalised interest at the rate and in the manner referred to in this clause 13.

13.3 Interest on liability merged in judgment or order

(a) If a liability under this Deed becomes merged in a judgment or order, then the Contractor or the Land Owner (as applicable) agree to pay interest to the Council on the amount of that liability as an independent obligation. This interest accrues from the date the liability becomes due for payment both before and after the judgment or order until it is paid, at a rate that is the higher of the rate payable under the judgment or order and the rate referred to in this clause 13.

(b) For the avoidance of doubt, if a liability under this Deed becomes merged in a judgment or order then the Contractor or the Land Owner (as applicable) will only be required to pay either interest payable under the judgment or order or interest calculated under this clause 13not both.

14. GST

14.1 Interpretation

(a) Except where the context suggests otherwise, terms used in this clause 14 have the meanings given to those terms by the GST Act.

(b) Any part of a supply that is treated as a separate supply for GST purposes (including attributing GST payable to tax periods) will be treated as a separate supply for the purposes of this clause 14.

(c) A reference to something done (including a supply made) by a party includes a reference to something done by any entity through which that party acts.

14.2 Reimbursements

Any payment or reimbursement required to be made under this Deed that is calculated by reference to a cost, expense, or other amount paid or incurred will be limited to the total cost, expense or amount less the amount of any input tax credit to which an entity is entitled for the acquisition to which the cost, expense or amount relates.

14.3 Additional amount of GST payable

Subject to clause 14.5, if GST becomes payable on any supply made by a party (**Supplier**) under or in connection with this Deed:

(a) any amount payable or consideration to be provided under any provision of this Deed (other than this clause14), for that supply is exclusive of GST;

(b) any party (**Recipient**) that is required to provide consideration to the Supplier for that supply must pay an additional amount to the Supplier equal to the amount of the GST payable on that supply (**GST Amount**), and:

(i) where that GST Amount is payable by the Council, the GST Amount will be limited to the amount of the input tax credit (if any) to which the Council (or the representative member of any GST group of which the

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Council, in any capacity, is a member) is entitled in relation to the Council's acquisition of that supply and is payable within 5 Business Days after the Council (or the representative member of any GST group of which the Council, in any capacity, is a member) has received the benefit of that input tax credit; and

(ii) in any other case, the GST Amount is payable at the same time as any other consideration is to be first provided for that supply; and

(c) the Supplier must provide a tax invoice to the Recipient for that supply, no later than the time at which the GST Amount for that supply is to be paid in accordance with clause 14.3(b) (or the time at which such GST Amount would have been payable in accordance with clause 14.3(b) but for the operation of clause 14.5(a).

14.4 Variation

(a) If the GST Amount properly payable in relation to a supply (as determined in accordance with clause 14.3 and clause 14.5), varies from the additional amount paid by the Recipient under clause 14.3, then the Supplier will provide a corresponding refund or credit to, or will be entitled to receive the amount of that variation from, the Recipient. Any payment, credit or refund under this clause 14.4(a) is deemed to be a payment, credit or refund of the GST Amount payable under clause 14.3.

(b) The Supplier must issue an adjustment note to the Recipient in respect of any adjustment event occurring in relation to a supply made under or in connection with this Deed as soon as reasonably practicable after the Supplier becomes aware of the adjustment event.

14.5 Exchange of non-monetary consideration

(a) To the extent that the consideration provided for the Supplier's taxable supply to which clause 14.3 applies is a taxable supply made by the Recipient (**Recipient Supply**), the GST Amount that would be otherwise be payable by the Recipient to the Supplier in accordance with clause 14.3 shall be reduced by the amount of GST payable by the Recipient on the Recipient Supply.

(b) The Recipient must issue to the Supplier an invoice for any Recipient Supply on or before the time at which the Recipient must pay the GST Amount in accordance with clause 14.3 (or the time at which such GST Amount would have been payable in accordance with clause 14.3 but for the operation of clause 14.5(a)).

14.6 No merger

This clause will not merge on completion or termination of this Deed.

15. Explanatory Note

The Explanatory Note must not be used to assist in construing this Deed.

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16. Notices to Parties

16.1 Form

Any notice, consent, information, application or request that must or may be given or made to a party under this Deed is only given or made if it is in writing and delivered or posted to that party at its address set out below or faxed to that party at its fax number set out below:

Council

Name:	The Council of the City of Sydney
Address:	456 Kent Street Sydney NSW 2000
Fax:	02 9265 9111
For the attention of:	General Counsel (currently Kirsten Morrin) and with a copy to the Chief Operating Officer (currently Kim Woodbury)

Contractor

Name:	Mirvac Green Square Pty Ltd
Address:	Level 28, 200 George Street, Sydney NSW 2000
Fax:	(02) 9080 8111
For the attention of:	The Green Square Project Director; and

Land Owner

Name:	Landcom
Address:	Level 14, 60 Station Street, Parramatta NSW 2150
Fax:	(02) 9841 8777
For the attention of:	Steve Driscoll, Head of CBD Projects Portfolio

16.2 Change of address

If a Party gives another Party 3 Business Days' notice of a change of its address or fax number, any notice, consent, information, application, or request is only given or made by that other Party if it is delivered, posted or faxed to the latest address or fax number.

16.3 Receipt

Any notice, consent, information, application or request is to be treated as given or made at the following time:

(a) if it is delivered, when it is left at the relevant address;

(b) if it is sent by post, 2 Business Days after it is posted; and

(c) if it is sent by fax, as soon as the sender receives from the sender's fax machine a report of an error free transmission to the correct fax number.

16.4 Receipt - next Business Day

If any notice, consent, information, application or request is delivered, or an error free transmission report in relation to it is received, on a day that is not a Business Day, after 5pm on that day in the place of the party to whom it is sent, it is to be treated as having been given or made at the beginning of the next Business Day.

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16.5 Notices to Land Owner and Contractor

Unless a notice is addressed to both the Contractor and the Land Owner, then:

(a) a copy of any notice addressed to the Contractor must be given to the Land Owner, and

(b) a copy of any notice addressed to the Land Owner must be given to the Contractor.

17. Schedules and Annexures to this Deed

The Parties agree:

(a) that all the Schedules and Annexures form part of this Deed;

(b) to comply with the provisions of those Schedules and Annexures; and

(c) the Exhibits do not form part of this Deed and are for information purposes only.

18. Not Used

19. General provisions

The Parties agree to the miscellaneous and general provisions set out in Schedule 12.

20. Land Owner's additional obligations under this Deed

In the event that the Contractor's rights to develop the Land pursuant to the legal arrangements the Contractor has with the Land Owner as at the date of this Deed are terminated, then on and from the date of such termination, the Land Owner agrees to perform all the Contractor's obligations under this Deed in accordance with this Deed as if it were the Contractor for the purposes of this Deed, until such time as alternative arrangements are agreed (and legally documented) between the Council and the Land Owner in respect of a new contractor potentially performing some or all of those obligations.

21. Obligations under this Planning Agreement

(a) Subject to paragraphs (e) and (h) in this clause 21, where a Legal Challenge is commenced the Parties' obligations under this Deed are immediately suspended and neither the Land Owner or the Contractor shall have any obligation to make any Contributions under this Agreement until the expiration of the Suspension Period or where paragraph (e) of this clause 21 applies.

(b) Subject to paragraph (c) in this clause 21, where any Legal Challenge is commenced and/or where the Court declares or orders the LEP or any Approval to be invalid, the Parties agree to:

(i) meet, no later than 5 Business Days after the date of service of commencement of the Legal Challenge and after any declaration or order that the LEP, the Planning Agreement or Approval (as appropriate) is invalid, to discuss in good faith:

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A. the suspension of the Parties' rights and obligations under this Deed; and

B. their intentions in relation to that declaration or order, including, without limitation, any intention to Appeal that declaration or order; and

(ii) consult regularly with the other Party in relation to any Legal Challenge or Appeal and must respond within a reasonable period to each other's questions, queries and enquiries and generally keep each other informed regarding the progress of any such Legal Challenge or Appeal.

(c) The Parties will not be required to meet, or consult, with the other Parties pursuant to paragraph (b) of this clause 21 in circumstances where any of the Parties receives legal advice that it should not so meet or consult with the other Party in connection with any such Legal Challenge or Appeal.

(d) The Parties agree that any discussions held between the Parties under this clause 21 are confidential and that a common interest between them exists for the purposes of legal professional privilege in connection with those discussions.

(e) Notwithstanding paragraph (a), the Contractor and the Land Owner may elect at their Cost and risk to proceed with the Development and continue to comply with their obligations under this Deed unless and until such time as the LEP, the Planning Agreement or Approval (as appropriate) is declared invalid.

(f) Where paragraph (e) applies, the Council agrees to cooperate in good faith with the Contractor or the Land Owner to progress the Development during the Suspension Period.

(g) Where the Council suspends the roll-out of the whole or any part of the Green Infrastructure and the Council Road Works during the Suspension Period, but the Contractor and the Land Owner wish to continue with the Development, the Contractor and/or the Land Owner may elect at their Cost and risk to step-in to complete certain parts of the Green Infrastructure and the Council Road Works for which the Council is responsible with the Council's consent, on terms to be agreed between the Parties in writing.

(h) The Parties agree that if this clause 21 applies and there is a suspension of the Parties' obligations under this Deed, where necessary, any Works that have been commenced, but not completed, will be left in a state that is safe to the public before Works cease notwithstanding the commencement of the Suspension Period.

(i) If this Deed is terminated as the result of any Legal Challenge or Appeal, the Council agrees to reimburse the Contractor and the Land Owner any Contribution Amount paid under this Deed and the Parties will meet in accordance with paragraph (b) of this clause 21 to discuss the return of the Bonds and any matters that may need to be addressed as a result of the commencement of the Contribution Works

(j) If the LEP is declared invalid, the Contractor and the Land Owner shall not have any obligation to make any of the Contributions under this Deed and, on resolution of the matters in paragraph (i) of this clause 21, this Deed will terminate.

(k) If an Approval is declared invalid, the Parties will meet in accordance with clause 21(b) of this Deed to discuss their respective rights and obligations under this Deed as a consequence of that determination.

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(l) If the Contractor and the Land Owner elect to proceed with the Development notwithstanding paragraphs (a), (f) and (g), then the Contractor and the Land Owner are liable for and indemnify the Council against all liability, loss, Costs and expenses (including Legal Costs) directly arising from or incurred in connection with the Contractor and the Land Owner proceeding with the Development despite the Legal Challenge and the operation of paragraphs (a), (f) and (g).

22. Further rights and obligations relating to the Land

22.1 Allowable GFA for Area 4B to be dedicated

(a) The parties acknowledge that;

(i) prior to the dedication of Area 4B, the allowable GFA for the Land is approximately 45,697sqm.

(ii) after the dedication of Area 4B, the allowable GFA for the Land is approximately 45,607sqm.

(b) The parties acknowledge that the Contractor or the Land Owner may request that a planning proposal be prepared to increase the amount of allowable GFA for the Development on the Land by an amount equal to the reduction in the allowable GFA on the Land of 90sqm having regard to the dedication of Area 4B to the Council.

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Schedule 1 - Section 7.4 Requirements

The Parties acknowledge and agree that the table set out below provides for certain terms, conditions and procedures for the purpose of the Planning Agreement complying with the EP&A Act.

Requirement under the EP&A Act	This Planning Agreement
Planning instrument and/or development application - (Section 7.4(1)) The Contractor or Land Owner has:	
(a) sought a change to an environmental planning instrument.	(a) No
(b) made, or proposes to make, a Development Application.	(b) Yes
(c) entered into an agreement with, or is otherwise associated with, a person, to whom paragraph (a) or (b) applies.	(c) No
Description of land to which this Deed applies - (Section 7.4(3)(a))	The Land described in paragraph 2 of Schedule 2.
Description of change to the environmental planning instrument or the development to which this Deed applies - (Section 7.4(3)(b)) Describe:	
(a) the proposed change to the environment plan to which this Deed applies; **OR**	(a) N/A
(b) the development to which this Deed applies.	(b) The Development described in paragraph 2 of Schedule 2.
The scope, timing and manner of delivery of contribution required by this planning agreement - (Section 7.4(3)(c))	As set out in the Contributions Schedule
Applicability of Section 7.11 of the EP&A Act - (Section 7.4(3)(d))	The application of section 7.11 of the EP&A Act is excluded in respect of the Development.
Applicability of Section 7.12 of the EP&A Act - (Section 7.4(3)(d))	The application of section 7.12 of the EP&A Act is excluded in respect of the Development.
Applicability of Section 7.24 of the EP&A Act - (Section 7.4(3)(d))	The application of section 7.24 of the EP&A Act is not excluded in respect of the Development.

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Requirement under the EP&A Act	This Planning Agreement
Consideration of benefits under this Deed if section 7.11 applies - (Section 7.4(3)(e)) Are the benefits under this Deed to be taken into consideration if Section 7.11 of the EP&A Act is not excluded?	Not applicable
Mechanism for Dispute resolution - (Section 7.4(3)(f)) This Deed provides a mechanism for the resolution of disputes under the agreement?	Refer to clause 12 and Schedule 7.
Enforcement of this Deed (Section 7.4(3)(g) and section 7.6) This Deed provides for enforcement by a suitable means in the event of a breach.	Refer to clauses 5, 6, 8, 9and 13 and Schedule 5 and Schedule 10
Registration of this Deed The Parties agree that this Deed will be registered in accordance with clause Schedule 16.	Yes
No obligation to grant consent or exercise functions - (Section 7.4(9)) The Parties acknowledge that this Deed does not impose an obligation on a planning authority to grant a Development Consent, or to exercise any function under the EP&A Act in relation to a change to an environmental planning instrument.	Refer to paragraph 1.8 of Schedule 13.

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Schedule 2 - Description of the Land and the Development

1. Green Square Town Centre Land

Lots 1, 4, 5, 6 and 7 in DP 1199427 in the Green Square Town Centre Land Plan in this Schedule.

2. Land

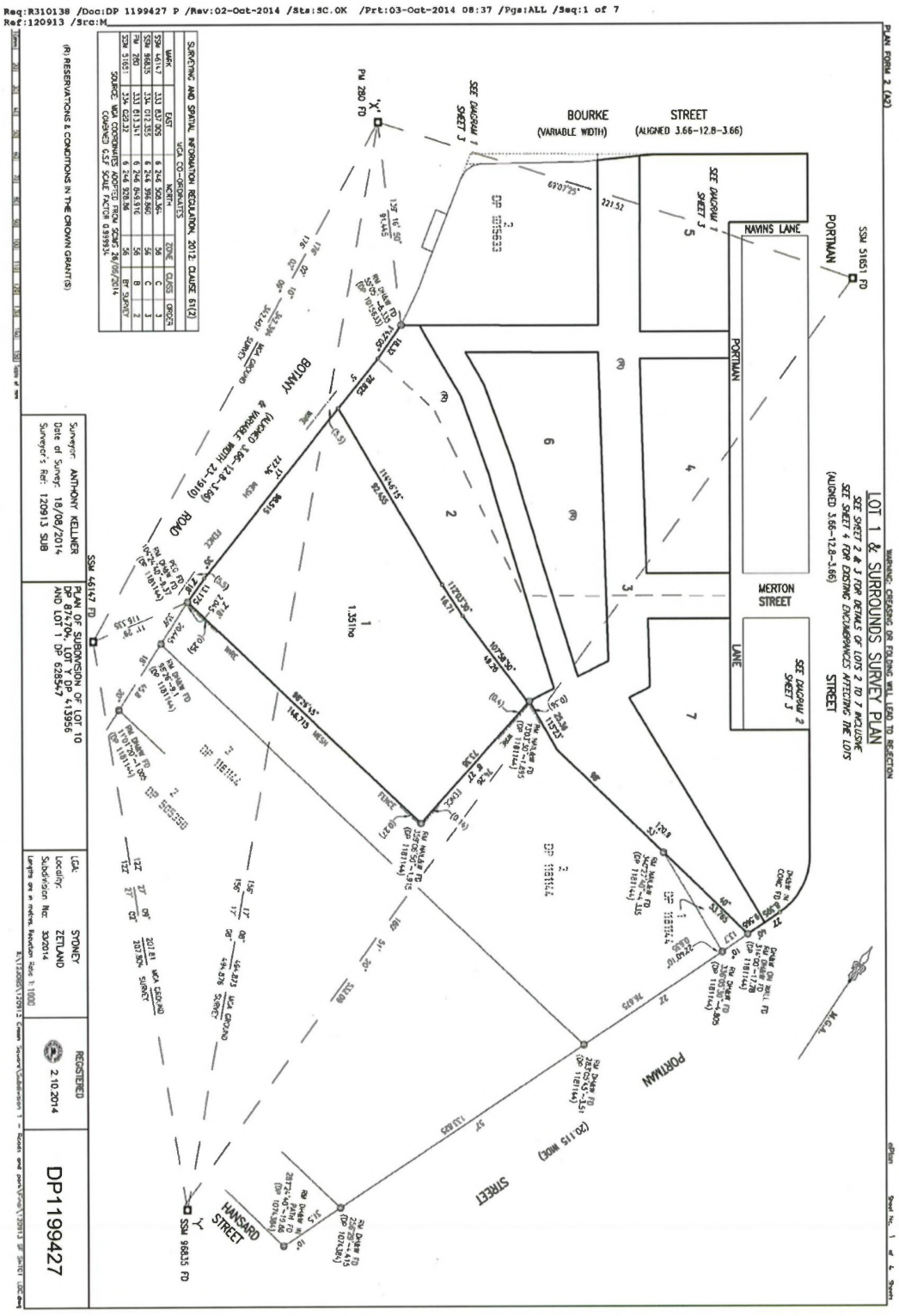
Land means the part of the Green Square Town Centre Land comprised in the part of Lot 1 in DP1199427 (being folio identifier 1/1199427) generally shown as '11' in the Stages 4 and 5 Land Plan in this Schedule, and any lot created by Subdivision of that land (including the Development Sites).

3. Development

Development means the development and use of the Land as permitted by the LEP, including but not limited to subdivision, low, medium and high density residential housing, commercial development, retail development, car parking, roads, utilities, associated services and open space.

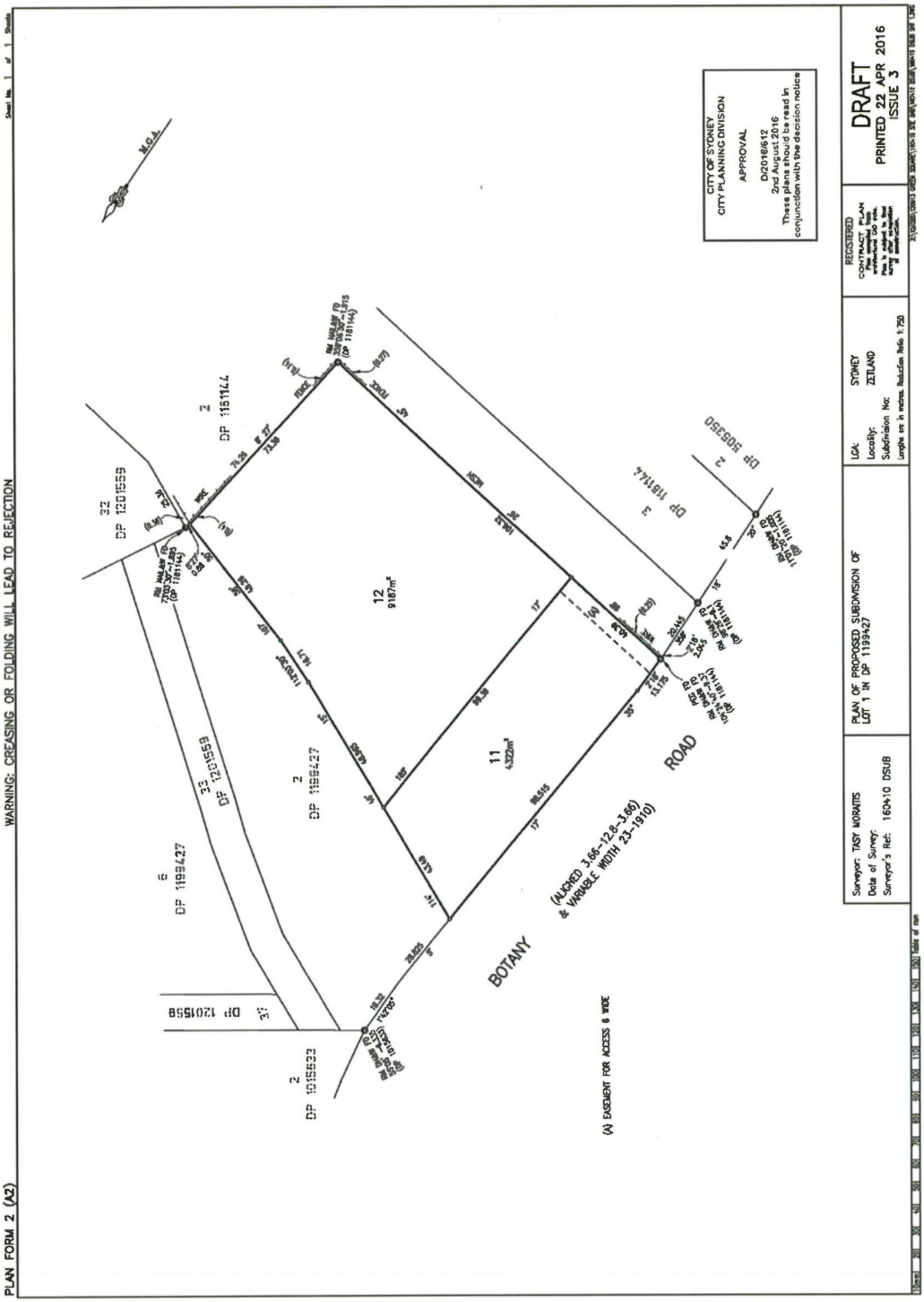
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4. Green Square Town Centre Land Plan



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5. Stages 4 and 5 Land Plan



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Schedule 3 - Contributions Schedule

1.1 Contributions Tables

Table 1 - Contribution Amounts

Contribution		Date Contribution Amount is payable
1.	Monetary Contribution of $7,957,658.71 as of 30 June 2012 and indexed in accordance with paragraph 1.2 below	To be paid prior to the date on which a Construction Certificate is issued in respect of works required to be completed to create any part of Habitable Space on the Development Site 8A.
2.	Monetary Contribution of $5,586,709.98 as of 30 June 2012 and indexed in accordance with paragraph 1.2 below	To be paid prior to the date on which a Construction Certificate is issued in respect of works required to be completed to create any part of Habitable Space on the Development Site 8B.

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Table 2 - Contribution Land

Contribution		Date Contribution Land is to be dedicated as public road or transferred to Council for future dedication by Council as public road
6.	**The Contribution Land for Roads (Colonnade) - Area 6** The transfer of the fee simple in stratum part of the Land, being land marked as Area 6 (approximately 79 square metres) on Map 2 – Contribution Land in Schedule 3, to the Council, limited in height to the underside of any structure forming the first finished floor level directly above the ground level of the Building comprising Area 6 and to a depth determined by the Contractor, but that the depth must be at least 400mm below the finished surface design level as approved in the development consent for Development Site 8A.	To be dedicated prior to the date on which the first Occupation Certificate is issued which relates to any part of Habitable Space on the Development Site 8A
7.	**The Contribution Land for Roads (Colonnade) - Area 7** The transfer of the fee simple in stratum part of the Land, being land marked as Area 7 (approximately 76 square metres) on Map 2 – Contribution Land in Schedule 3, to the Council, limited in height to the underside of any structure forming the first finished floor level directly above the ground level of the Building comprising Area 7 and to a depth determined by the Contractor, but that the depth must be at least 400mm below the finished surface design level as approved in the development consent for Development Site 8B.	To be dedicated prior to the date on which the first Occupation Certificate is issued which relates to any part of Habitable Space on the Development Site 8B.
3	**The Contribution Land for Roads – Area 4B** The transfer of the fee simple in stratum of part of the Land, being land marked as Area 4B (approximately 1,214.2 square metres) on Map 2 – Contribution Land in Schedule 3, to the Council, unlimited in height and to a depth determined by the Land Owner, but that depth must be at least 1.5 metres below the finished surface design level as detailed in the Essential Infrastructure DA Plans. The Land Owner may request that works to construct the road and footpath on Area 4B be carried out as Contribution WIK at the Land Owner's risk and the definition of Construction Cost be amended as necessary to apply to those works. Any offsets to be provided to the Land Owner are to be agreed between the Council and the Land Owner having regard to the Construction Cost of the works.	To be transferred (or otherwise dedicated, where agreed by all parties) 9 months prior to the date on which the first Occupation Certificate is issued for the first Building which includes Habitable Space on Development Site 8A or 8B.

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The areas set out in Table 2 – Contribution Land are indicative only and are subject to survey.

The timeframes and dates set out in the second column of Table 2 – Contribution Land are subject to the extension of time regime in clause 1.3 of this Schedule 3.

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Table 3 - Contribution WIK

Contribution		Date Contribution Works are to be delivered/Practically Completed
1	**Remediation of lands to be dedicated or transferred** The Land Owner must ensure that, prior to a part of the Contribution Land being transferred to the Council in accordance with dates in Table 2, that part of the Contribution Land is to be remediated so that Council is then able to carry out the Council Road Works (including the installation of services and other works required to complete the Council Road Works) on that part of the Contribution Land. Suitably remediated or uncontaminated select sub-grade(- 40mm gravel) material (compacted to 97% of the modified compaction standards) or material required by the Remediation Action Plan or as otherwise agreed by the Parties must be provided at least 150mm thick with an identification marker fabric across the whole area to the indicated levels below: a. Area 4B: 700 mm below design surface levels as indicated in the Essential Infrastructure DA Plans and with any relevant environmental planning instruments and approvals and all structures, footings, redundant underground services, culverts and kerbs removed to that depth; b. Areas 6 and 7: at the design surface levels as indicated in the Essential Infrastructure DA Plans and with any relevant environmental planning instruments and approvals and all structures, footings, redundant underground services, culverts and kerbs removed to that depth. The Contractor must remove and Remediate any underground storage tanks from the Contribution Lands that are identified in the Remediation Action Plan and required to be removed from the Contribution Lands under the Remediation Action Plan or as otherwise uncovered by the Contractor irrespective of the depth at which those underground storage tanks are located. If there is a risk of pollutants migrating from the Contribution Land below the minimum depth and interim cap level, then the Contractor must remediate below that level to remove that risk. The Contractor will engage a site auditor to prepare the Contractor Remediation Statement in accordance with the Remediation Action Plan and anything else required by law, including under the *Contaminated Land Management Act*. The Contractor must supply and install a security fence adjacent to the Contribution Lands prior to transfer to	To be Practically Completed and the Contractor Remediation Statement provided to Council prior to the date the part of the Contribution Land is to be dedicated or transferred as listed in Table 2 – Contribution Lands of this Schedule.

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	the Council to prevent public access on to those parts of the Site which have not been Remediated.	
2.	**Road, footpath and public domain construction and utility services installation (Contractor Road Works)** The Contractor will undertake all road and footpath construction on Areas 6 and 7 on Map 2 – Contribution Land in Schedule 3. The Contractor Road Works are to be consistent with the development consent as approved for the Development Sites corresponding to Areas 6 and 7 in column 2 of this Item 2 and to at least the construction standard described in this Item 2 below. The Road Works Bond must be provided as security in accordance with this Deed. The Contractor Road Works may include the following: ▪ Area 6 (Development Site 8A) and Area 7 (Development Site 8B) - paving, including compacted sub-grade, concrete substrate, honed exposed aggregate concrete pavers PPX 254:400 or equivalent (unit size 600x400x60mm thick), with a crossfall to match existing footpath crossfalls; ▪	In respect to Areas 6 and 7, to be Practically Completed prior to the date that an Occupation Certificate is issued which relates to any part of Habitable Space on the corresponding Development Site set out below: Area 6 – Development Site 8A Area 7 – Development Site 8B

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Table 4 - Green Infrastructure Contribution Works

Contribution		Date Contribution is to be delivered/Practically Completed
1.	**Non-Potable Recycled Water Network** The Contractor must design and construct all Buildings to provide a dual reticulation water system for water consumption. The system must be capable of fully connecting to the Non-Potable Recycled Water Network provided by the Council in Green Square and must be configured to supply all toilets, washing machine locations, any car wash bays, any cooling towers and irrigation usage on the Land. As part of these requirements, the Contractor must: a) connect to the non-potable recycled water pipes installed by Council or in the event that the Council's Non-Potable Recycled Water Network system is not operational at that time, connect the non-potable water pipes in the Building to the town water (potable) pipes downstream of the Sydney Water town water meter (**Non Potable Water Connection Point**); b) provide space of 1m x 1m by 2.4m (or as otherwise agreed by Council) to accommodate metering equipment, isolation valves and incoming pipes for non-potable recycled water at the Non Potable Water Connection Point at a location to be agreed between the parties (**Non-Potable Recycled Water Room**); c) provide space and access from the property boundary to the Non Potable Water Connection Point of 1 metre in width for installation of recycled water pipes by Council (**Non-Potable Recycled Water Access Space**); d) design the Building so that it is capable of connecting to a non-potable recycled water supply with static pressure of a minimum of 15m/head at the property boundary; and e) design the Building on the basis that Council will procure a non-potable recycled water supply quality which complies with the Australian Guidelines for Water Recycling for use in toilets, washing machine taps, car wash bays, cooling towers and irrigation usage. The level of total dissolved solids level in the non-potable water supply shall be in accordance with the Australian Guidelines for Water Recycling and be less than 300 ppm 95% of the time.	Prior to the issue of an Occupation Certificate for each Building.

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2.	**Space Cooling System** The Contractor must undertake the following: **2.1 Space Cooling - Residential Units and Common Areas within a Residential Building greater than 15 storeys in height above street frontage ground level** Where air conditioning package or other systems requiring a refrigerant are installed for space cooling: 1) heat rejection must be via a central condenser water system 2) the air conditioning unit provided must have an energy efficiency rating (EER) for cooling of 3.5 or greater. **2.2 Space Cooling - Residential Units and Common Areas within a Residential Building 15 storeys or less in height above street frontage ground level** 1) Where an air conditioning unit is provided it must be of the Inverter type if a single evaporator is connected to the condensing unit or of Variable Refrigerant Flow (VRF) type if more than one evaporator is connected to the condenser. In either case the units must have an energy efficiency rating (EER) for cooling of 3.1 or greater. 2) The Contractor may (but is not obliged to) design, construct and configure these Buildings with the same specifications that apply to the Buildings in point 2.1 above. **2.3 Space Cooling - Retail Space within a Residential Building** Same as required as for a Residential Building, except: 1) Where the individual or group of individual retail units for the one user has an area that exceeds 2000 square metres and requires a chilled water air conditioning or refrigeration system it must be primarily supplied by heat fired adsorption, absorption chillers provided by the Contractor. 2) If a chilled water system is not used a Variable Refrigerant Flow (VRF) system or a stand alone condenser water system package, air handling units may be installed. The system must have an energy efficiency rating (EER) of 3.5 or greater for cooling or a coefficient of performance (COP) rating of 3.5 or greater for heating. Any electric chiller provided by the Contractor must have a coefficient of performance (COP) rating of 6 or greater.	Prior to the issue of an Occupation Certificate for each Building.
3.	**Air conditioning refrigerant**	Prior to the issue of an Occupation Certificate for each Building.

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	Where an air conditioning package or other system requires a refrigerant for space heating and/or cooling then: 1. The Contractor must ensure that the refrigerant used in the system has a Global Warming Potential (**GWP**) of 3 or less to ensure maximum greenhouse gas equivalent abatement if such system is available in suitable capacity ranges to match the design of conventional systems from at least three established suppliers on similar terms to conventional systems and at market rates which are not more than 10% higher than the market rates for conventional systems; and 2. if the Contractor is not required to have a refrigerant with a GWP or 3 or less, the Contractor must use its reasonable endeavours to use a system with a refrigerant which has the lowest commercially available GWP if such system is available in suitable capacity ranges to match the design of conventional systems from at least three established suppliers on similar terms to conventional systems and at market rates which are not more than the market rates for conventional systems.	
4.	**Easements** **Non Potable Recycled Water Network** The Contractor must procure registration of the following easements relating to the Non-Potable Recycled Water Network in the relevant folio or folios of the Register for that part of the Land containing the easement sites: 1) the Non-Potable Recycled Water Room; 2) the Non-Potable Recycled Water Access Space; 1) any other spaces in the Building required for the Non-Potable Recycled Water Network; 3) infrastructure (including pipes, meters and connection points) relating to the Non-Potable Recycled Water Network located in the Building that will be owned by Council; and 4) Council access to the Building after the Completion Date to construct, Deliver and Connect the Non-Potable Water Network, disconnect the pipes from the town water (potable) and maintain that Non-Potable Water Network. **Restrictions** 1) For each Building, the Contractor must procure the Registration of all restrictions contained in Table 4 of Schedule 3 on the use of the Land relevant to that Building and applicable to the owners and occupiers of the Building after the Completion Date	Prior to the issue of an Occupation Certificate for each Building.

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		in any Strata Management Statement that is Registered in respect of that Building.	
	2)	For each Building, the Contractor must procure the Registration of all restrictions contained in Table 4 of Schedule 3 on the use of the Land relevant to that Building and applicable to the owners and occupiers of the Building after the Completion Date in the relevant folio or folios of the Register for that part of the Land comprising that Building.	

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Table 5 - Other Public Benefits

Contribution		Date Contribution is to be provided
1.	The Contractor must (at its cost and risk) procure the: (a) creation of easements under section 88B of the *Conveyancing Act* 1919 that burden the relevant parts of the Land shown in Map 3 – Schedule 3 and benefits the Council for the purpose of public access ways on the Land to the satisfaction of the Council. Details and locations of these easements are shown in Map 3 – Land to be Affected by Easements in Schedule 3; and (b) registration of each easement in the folio of the Register for that part of the Land containing the easement site.	For each easement on the Land that has its easement site within a Development Site, the easement is to be created on or before the Completion Date of the Building on the Development Site on which the easement site is situated. For each easement on the Land that has its easement site outside a Development Site, the easement is to be created on or before the Completion Date of the last Building that includes Habitable Space for the Development Sites adjoining the easement site.

1.2 Increase in Contributions

(a) If the Contributions Tables state that the Contribution Amount will be increased, then the amount specified for that Contribution Amount in the Contributions Tables must be increased in accordance with the formula set out below:

$$\frac{Contribution\ Amount\ x\ CPI}{LCPI}$$

where:

CPI = the CPI last published before the due date for payment of that Contribution Amount; and

LCPI = the CPI last published before 30 June 2012.

No increase or other change will be made to the Contributions Amount where LCPI is greater than CPI.

Note: the Sydney Consumer Price Index (All Groups) is to be used

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MAP1 - SITE IDENTIFICATION PLAN

STAGE 5



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MAP2 - CONTRIBUTION LAND

STAGE 5



Consolidated stage boundary
Development sites
Area 1 – Roads to be dedicated in fee simple
Area 2 – Roads to be dedicated in fee simple
Area 3 – Public Plaza, community facility and road to be dedicated in fee simple
Area 4 – Roads to be dedicated in stratum
Area 5 – Footpath to be dedicated in stratum for width of 1.4m
Area 6 – Footpath to be dedicated in stratum for width of 1.4m
Area 7 – Footpath to be dedicated in stratum for width of 1.4m
Area 8 – Roads to be dedicated in fee simple
Area 9 – Roads to be dedicated in fee simple
Area 10 – Roads to be dedicated in stratum
Area 11 – Roads to be dedicated in stratum

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MAP3 - LAND TO BE AFFECTED BY EASEMENTS

STAGE 5



Consolidated stage boundary
Development sites
Area 13 – Easement for footpath widening, 3m wide at ground floor
Area 14 – Easement for footpath widening, 1.5m wide at ground floor
Area 15 – Easement to allow access for the public, for a width of 6m clear to the sky. 3m wide bridge may connect adjacent sites.
Area 16 – Easement to allow access to public, for width of 6m clear to the sky
Area 17 – Easement for colonnades, 5m wide at ground and first floor

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Schedule 4 - Contribution Works Procedures

This Schedule 4 applies to the Contribution Works.

1.1 Approvals and Design responsibility

(a) The Contractor must at its Cost and risk:

(i) prepare all Applications and obtain all Approvals necessary to carry out the Contribution Works, except for the Essential Infrastructure DA;

(ii) comply with all conditions of all such Approvals; and

(iii) comply with those conditions of the Essential Infrastructure DA agreed between the parties which are to be the responsibility of the Contractor in accordance with the principles set out in Schedule 19.

(b) The Contractor agrees to procure the design of the Contribution Works (so as to enable the achievement of Practical Completion of each Contribution Works Portion) in accordance with this Deed.

1.2 Construction phase

(a) Subject to paragraph 1.2(b) of this Schedule 4, the Contractor must procure the execution and completion of the Contribution Works in accordance with:

(i) the Approvals;

(ii) Schedule 3; and

(iii) its other obligations under this Deed.

(b) The Contractor must not commence construction of any of the Contribution Works until it has given the Council copies of the Construction Certificate relating to the Contribution WIK.

(c) The Contractor must not commence construction of the Contribution WIK Portion comprising the Contractor Road Works unless and until the Council has received:

(i) the design of the Contractor Road Works; and

(ii) the program for the construction of the Contractor Road Works, including anticipated dates for construction and completion.

1.3 Review of Contribution Works and Construction Documents

The Contractor acknowledges and agrees that:

(a) the Council may, but is not obliged to review the plans and specifications of the Contribution Works;

(b) the Council is not responsible for any errors omissions or non-compliance with any Law or the requirement of any Authority by reason of agreeing to the plans and specifications of the Contribution Works;

(c) the Council is not liable for any liability, loss or Cost incurred by the Contractor because of any defect in the design or construction of any part of the Contribution Works; and

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(d) no comment, review or information supplied to the Contractor by the Council alters or alleviates the Contractor from its obligation to construct and complete the Contribution Works in accordance with this Deed; and

(e) the Council must, if it elects to review the plans and provide comments in accordance with this paragraph 1.3, provide those comments to the Contractor within 20 Business Days of receipt.

1.4 Contractor responsibilities

(a) The Contractor is responsible for the care of each Contribution WIK Portion at all times prior to Practical Completion in respect of that Contribution WIK Portion.

(b) Prior to Practical Completion, the Contractor is responsible for:

(i) providing all things and taking all measures reasonably within its control to protect people and property in relation to the Land where failure to do so may render the Council liable under the Law; and

(ii) taking any urgent action in relation to the Land necessary to protect people and the consequences of any failure to take such action where failure to do so may render the Council liable under the Law.

1.5 Damage

If the Contractor or the employees or agents of the Contractor in conducting the Contributions Works damage any public utilities and services or property on or adjacent to the Land, the Contractor must promptly make good the damage and pay any compensation which the Law requires the Contractor to pay.

1.6 Best Industry Practice

The Contractor must ensure that the Contribution Works it has procured to be designed and carried out are designed and carried out according to Best Industry Practice.

1.7 Quality of Material and Work

The Contractor must procure the Contribution Works to be carried out:

(a) in accordance with the relevant Approvals;

(b) using good quality materials, which must be suitable for the purpose for which they are required under this Deed;

(c) in compliance with relevant standards determined by Australian Standards Limited, the Building Code of Australia and any relevant manufacturers' standards;

(d) so that the Contractor Road Works, when completed, comply with the specifications in Table 3 of the Contributions Schedule and

(e) so that the Contribution GI Works, when completed, comply with the specifications in Table 4 of the Contributions Schedule.

1.8 Insurance

The Contractor must ensure that there is effected and maintained an insurance policy covering such risks, and on terms, reasonably acceptable to the Council, including:

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(a) physical loss, damage or destruction of each Contribution Works Portion (including any associated temporary works);

(b) third party liability;

(c) contractors; and

(d) professional indemnity insurance with respect to design works only.

The policy must provide cover for the period from the date of the commencement of construction of the relevant Contribution Works Portion until the end of any relevant Defects Liability Period for that Contribution Works Portion.

1.9 Amount of property insurance

The insurance cover in relation to works insurance must be for an amount not less than the full insurable value of the relevant Contribution Works Portion on a full reinstatement and replacement basis (including extra Costs of reinstatement, Costs of demolition and removal of debris, and professional fees).

1.10 Insurance generally

All insurances which the Contractor is required by this Deed to effect and maintain:

(a) must be with insurers;

(b) must note the rights and interests of the Council; and

(c) must not in any respect limit or derogate from the liabilities or obligations of the Contractor under this Deed.

1.11 Self-insurer

(a) the Land Owner warrants, and Council acknowledges, that:

(i) the Land Owner is a member of the NSW Treasury Managed Fund; and

(ii) the Fund provides the Land Owner with insurance cover against liability arising from a breach by the Land Owner of its obligations under this Deed.

(b) the Land Owner warrants that, in the event it is no longer a member of NSW Treasury Managed Fund, it will provide suitable insurance which satisfies the requirements of paragraphs 1.8 - 1.10 (inclusive) of this Schedule 4.

(c) Where the Land Owner becomes the Contractor, the obligations in paragraphs 1.8 - 1.10 (inclusive), 1.12 - 1.14 (inclusive) of this Schedule 4 do not apply.

This clause 1.11 of Schedule 4 only applies while Landcom is the Land Owner.

1.12 Providing proof of insurance

Whenever reasonably requested in writing by the Council, the Contractor must give the Council certificates of the insurance policies which the Contractor is required by this Deed to effect and maintain.

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1.13 Premiums

The Contractor must punctually pay all premiums in respect of all insurances.

1.14 Additional Obligations

The Contractor must:

(a) not do or omit to do anything which if done or not done might vitiate, impair, derogate or prejudice any insurance or might prejudice any claim under any insurance policy;

(b) if necessary, rectify anything which might prejudice any insurance policy;

(c) reinstate an insurance policy if it lapses;

(d) immediately notify the Council in writing if an insurer gives notice of cancellation in respect of any insurance policy; and

(e) give full, true and particular information to the insurer of all matters and things the non-disclosure of which might in any way prejudice or affect any such policy or the payment of all or any benefits under the insurance.

1.15 Application of insurance proceeds

If all or any part of the Contribution Works is damaged or destroyed prior to Practical Completion thereof:

(a) all insurance proceeds in respect of that damage or destruction must be applied to repair or reinstate the Contribution Works, except if the damage or destruction is caused by the Council;

(b) if the insurance proceeds received under the insurances in respect of the damage or destruction are less than the cost of repairing or replacing the Contribution Works (or those insurances are void or unenforceable and there are no proceeds), the Contractor must complete the repair and replacement of the Contribution Works using its own funds; and

(c) if the insurance proceeds received under the insurances in respect of the damage or destruction exceed the Costs of repairing or replacing the Contribution Works, the Contractor will be entitled to keep that excess.

1.16 Input tax credits

Where the Contractor has effected any insurance policy referred to in this Deed before the date of this Deed, the Contractor:

(a) warrants that it informed the insurer of the extent of its entitlement to an input tax credit for the last premium it paid at or before the time of first making any subsequent claim under the insurance policy; and

(b) must inform the insurer of the extent of its entitlement to an input tax credit for any future premium it pays immediately after paying that premium.

Where the Contractor effects any insurance policy referred to in this Deed after the date of this Deed, the Contractor must inform the insurer of the extent of its entitlement to an input tax credit for any premium it pays immediately after paying that premium.

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1.17 Certification

(a) When the Contractor is of the opinion that a Contribution Works Portion has reached Practical Completion, the Contractor must:

(i) for the Contractor Road Works or the Contribution GI Works (as the case may be) request the relevant Certifier to issue a certificate confirming Practical Completion of the relevant Contribution Works Portion (Certificate of Practical Completion);

(ii) for the Remediation Works, request the relevant Certifier to issue the Contractor Remediation Statement ; and

(iii) at the same time give the Council a copy of that request.

1.18 Certifier to respond

Within 25 Business Days after the receipt of the Contractor's request, the Contractor must procure the Certifier to either:

(a) give the Contractor (with a copy to the Council at the same time):

(i) a Certificate of Practical Completion certifying that the Contractor Road Works or the Contribution GI Works (as applicable) has reached Practical Completion;

(ii) the Contractor Remediation Statement; or

(b) give the Contractor (with a copy to the Council at the same time) the reasons for not issuing that certificate and provide a detailed list of work required to be completed in order for that certificate to be issued.

1.19 Dispute where no Certificate of Practical Completion

If within 25 Business Days after receipt of the Contractor's request the Certifier does not:

(a) issue the Certificate of Practical Completion of the Contractor Road Works or the Contribution GI Works (as the case may be) or the Contractor Remediation Statement (as the case may be); or

(b) give the Contractor reasons for not issuing the certificate,

then either the Council may regard the circumstances as constituting a dispute between the Council and the Contractor.

1.20 Dispute of detailed list

(a) If the Certifier issues the detailed list referred to in paragraph 1.18(b), then the Contractor may dispute the detailed list within 10 Business Days of the detailed list being issued by notice in writing to the Certifier.

(b) If the Certifier and the Contractor are not able to resolve the dispute about the detailed list within 15 Business Days of the Contractor notifying the Certifier of the dispute about the detailed list, then either the Council or the Contractor may regard the circumstances as constituting a dispute between the Council and the Contractor.

(c) If the Certifier and the Contractor resolve the dispute about the detailed list, then the Certifier must provide an updated detailed list or withdraw the detailed list and

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issue the Certificate of Practical Completion or the Contractor Remediation Statement (as the case may be).

1.21 Carrying out required work

(a) On receipt of the detailed list referred to in paragraph 1.18(b) in this Schedule 4 or the updated detailed list referred to in paragraph 1.20(c) in this Schedule 4, the Contractor must carry out the work referred to in that list and, on completion of that work, request the Certifier to issue a Certificate of Practical Completion or Contractor Remediation Statement (as the case may be).

(b) If the Certifier is satisfied that all such work has been completed in accordance with this Deed then, the Contractor must procure the Certifier to issue the Certificate of Practical Completion or the Contractor Remediation Statement (as the case may be) within 25 Business Days after receipt of the Contractor's request. Otherwise the provision of paragraphs 1.17 to 1.20 in this Schedule 4 inclusive re- apply.

1.22 Prerequisites for Certificate of Practical Completion

Despite paragraph 1.19 in this Schedule 4, a Certificate of Practical Completion for a Contribution Works Portion may not issue unless and until:

(a) where relevant copies of all necessary documents and Approvals issued by the Consent Authority or relevant accredited certifier acknowledging completion of the Contribution Works Portion, and if appropriate permitting use and occupation (if applicable) of the Contribution Works Portion, including an Occupation Certificate (if required) have been delivered to the Council; and

(b) copies of all other certificates, consents and Approvals required of any relevant Authority, whose certificate, consent or approval is required for the erection, use or occupancy of that Contribution Works Portion have been delivered to the Council;

1.23 Bond

Except in relation to the Remediation Works, if there is a defect or omission in relation to a Contribution Works Portion which prevents the Certificate of Practical Completion being issued, and, if the Council (acting reasonably) agrees to accept a Bond to secure completion of that defect or omission, then:

(a) if the Contractor agrees, the Contractor must:

  (i) provide the Bond for the amount required by the Council (acting reasonably) to secure that defect or omission; and

  (ii) undertake in writing to rectify that defect or omission within the time nominated by Council (acting reasonably);

(b) upon receipt of the Bond and the Contractor's undertaking, the Council will direct the relevant Certifier to disregard that defect or omission for the purposes of certifying Practical Completion of that Contribution Works Portion;

(c) the Contractor must rectify the defect or omission in accordance with its undertaking; and

(d) if the Contractor fails to rectify the defect or omission in accordance with its undertaking, then the Council may call on the Bond in accordance with paragraph 8

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of Schedule 10 and/or rectify the breach in accordance with paragraph 2 of Schedule 6.

1.24 Providing documents to the Council

If the Council reasonably so requires, the Contractor must use all reasonable endeavours to procure the issue and delivery to the Council of copies of the following items (as may be relevant) in relation to each Contribution Works Portion:

(a) a copy of as built drawings and all warranties and operations manuals given in connection with the Contribution Works Portion; and

(b) a copy of all certificates issued by any Authority in relation to any part of the Contribution Works Portion which have not previously been delivered to the Council,

promptly, and in any event within 90 Business Days, after Practical Completion.

1.25 Rectification

(a) At any time during the Defects Liability Period (in respect of a Contribution Works Portion), the Council may inspect the Contribution Works Portion for the purpose of ascertaining what defects and omissions (if any) in the Contribution Works Portion are required to be made good by the Contractor.

(b) The Council may give notice to the Contractor that:

(i) states that part of the Contribution Works Portion is defective, giving details;

(ii) specifies the works which the Council considers are required to rectify the defect;

(iii) provides a reasonable estimate of the Costs and Legal Costs to rectify such works, including particulars of how those Costs and Legal Costs were calculated; and

(iv) allows the Contractor a reasonable period to rectify such works.

(c) The Contractor must rectify any defects or omissions in the Contribution Works Portion which are identified in a notice issued in accordance with paragraph 1.24(b) of this Schedule 4. For the avoidance of doubt, this obligation applies to the Remediation Works, including after the transfer of the Contribution Land.

(d) If the Contractor fails to complete or rectify such works within the period required by a notice issued under paragraph 1.23(b) of this Schedule 4, then the Council may have such works completed or rectified and the Contractor must reimburse the Council promptly following any demand by the Council for all Costs and reasonable Legal Costs incurred by the Council in completing or rectifying such works.

(e) The Contractor indemnifies the Council for all monies payable by the Contractor to the Council pursuant to paragraph 1.24(d) of this Schedule 4.

(f) The indemnity in paragraph 1.25(e) of this Schedule 4 is a continuing obligation, separate and independent from the Contractor's other obligations and survives completion, rescission or termination of this Deed. The Contractor must pay on

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demand any amount it must pay under the indemnity in paragraph 1.25(e) of this Schedule 4.

1.26 Not Used

1.27 Development Program

The Contractor must provide an updated Development Program to the Council from time to time as the Development progresses, and as a minimum must provide an updated program:

(a) as soon as possible upon lodgement of an Application for construction of a Building with the relevant Consent Authority;

(b) whenever there are delays in the Development which materially impact on the milestones identified in the previous Development Program provided to Council which relate to the issue of a Construction Certificate or Occupation Certificate; and

(c) no less than 6 months before the Contractor lodges an Application for an Occupation Certificate for any Building with the relevant Consent Authority.

1.28 Remediation

(a) The Contractor must:

(i) engage a Site Auditor for the works identified in this paragraph 1.28 including the preparation of the Contractor Remediation Statement;

(ii) prepare and submit to the Site Auditor for approval and obtain a Remediation Action Plan that:

A. sets out those works to be carried out by the Contractor consistent with the requirements in the Contributions Schedule which will then permit the Council to carry out the Council Road Works (including the installation of services and other works required to complete the Council Road Works) on the Contribution Lands **(Stage 1 Remediation)**;

B. in relation to the Remediation Works, sets out a certification process to certify that Contribution Lands have been Remediated in accordance with the Remediation Action Plan and the Contributions Schedule **(Contractor Remediation Statement)**.

C. sets out a certification process that certifies that the Contribution Lands are Remediated following the completion of the Council Road Works **(Stage 2 Remediation) (Council Remediation Statement)**;

D. includes a site management section which sets out what must be done to maintain the interim cap forming part of the Remediation Works, including the monitoring of the interim cap, until such time as the Stage 2 Remediation is completed; and

E. provides that the Environmental Consultant must also include sufficient detail to be used by the parties as a dilapidation report.

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(iii) unless otherwise set out in the Remediation Action Plan, procure the preparation of an environmental management plan to regulate the access of the Contribution Lands below the capping put in place by the Contractor in accordance with the Contributions Schedule;

(iv) comply with all legislation and guidelines in carrying out the Remediation Works; and

(v) satisfy any conditions in the Contractor Remediation Statement and the Stage 1 Remediation in the Remediation Action Plan, including any ongoing monitoring obligations, including after the transfer of the Contribution Land, except to the extent such obligations are the responsibility of the Council in clause 1.28(b).

(a1) The Council will be responsible for monitoring the surface of the interim cap forming part of the Remediation Works after the Contribution Land is transferred to Council.

(b) Nothing in this Deed obliges the Contractor to undertake:

(i) Remediation except in accordance with the Contributions Schedule;

(ii) the Council Remediation Statement; or

(iii) the construction of the Council Road Works (including the installation of any services in the roads); or

(iv) after the Contribution Lands are transferred to the Council, any works on the Contribution Lands which are required as a result of the ongoing monitoring to be carried out by the Contractor, unless such works are the result of a defect in the Remediation Works in which case the Contractor must carry out such works as are required under the Remediation Action Plan or the Contractor Remediation Statement to rectify such defect during the Defects Liability Period.

(c) Subject to paragraph 1.28(d) on and from transfer of the Contribution Land, the Contractor and the Land Owner release the Council from all claims, actions, demands, losses, damages, reasonable Costs and reasonable Legal Costs suffered or incurred by the Council as the result of migrating Contaminants from the Contribution Lands onto the Land owned by the Land Owner and being developed by the Contractor.

(d) The release in paragraph 1.28(c) operates only until the date which is the earlier of:

(i) the date which is 5 years after the Occupation Certificate for the Building adjoining each portion of the relevant Contribution Land; and

(ii) in respect of any part of the Land sold by the Land Owner (other than Land on which a strata titled Building has been or is being constructed), provision to Council of a duly executed covenant from the purchaser of that sold Land in favour of the Council containing the release in paragraph 1.28(c) which will apply for 5 years after the Occupation Certificate for the Building adjoining the relevant Contribution Land.

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1.29 Intellectual Property

The Council grants to the Land Owner and Contractor a licence to use the intellectual property rights which the Council has for the Essential Infrastructure DA Plans.

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Schedule 5 - Contribution Land Procedures

1.1 Approvals

No less than 10 Business Days before the timing identified in Column 2 of Table 2 of the Contributions Schedule, the Land Owner must at its Cost and risk, except in respect of the Essential Infrastructure DA:

(a) prepare all Applications and obtain all Approvals necessary to:

(i) Subdivide the Land by one or more plans of subdivision to separate the Contribution Land from the Land (**Relevant Subdivision**); and

(ii) create such easements, restrictions on use and covenants as agreed by the Council and the Land Owner (both acting reasonably) for those parts of the Land owned by the Land Owner, as being necessary or usual in the circumstances to permit and promote public access to the Contribution Land, which easements, restrictions on use or covenants must be registered at or about the same time as the relevant plan of subdivision (**Relevant Easements**);

(b) comply with all conditions of all such Approvals; and

(c) procure Land Registry Services NSW to register the relevant documentation and plans to create the Relevant Subdivision and register the Relevant Easements consistent with all such Approvals.

1.2 Land Owner undertakings regarding Contribution Land

In accordance with the timing identified in Column 2 of Table 2 of Schedule 3, the Land Owner must (at its Cost and risk):

(a) do all acts and execute and deliver all documents (in form and content reasonably satisfactory to the Council) to the Council (or such other person as the Council may reasonably direct) give effect to the transfer of Contribution Land to the Council for a consideration of $1;

(b) deliver to the Council:

(i) any consents and other documentation in registrable form required for the transfer (and registration) of the Contribution Land;

(ii) any permits in connection with the Contribution Land and any consents and other documentation in a registrable form necessary, or otherwise required by the Council, for the transfer (and registration) of those permits; and

(c) take any other necessary action (other than paying stamp duty) to give effect to the transfer of the title of the Contribution Land to the Council (or such other person as the Council may direct) free of all Encumbrances (other than a Permitted Encumbrance) and affectations (including any charge or liability for rates, taxes and charges) except any caveat lodged over the Contribution Land by the Council in accordance with clause 5.

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1.3 Compulsory Acquisition

(a) If the Land Owner does not transfer or grant to the Council the *"interests"* in land (as defined in the *Land Acquisition (Just Terms Compensation) Act* 1991) as required by this Deed (including the transfer of the Contribution Land to Council), the Land Owner consents to the Council compulsorily acquiring the whole or any part of that relevant interest in accordance with the *Land Acquisition (Just Terms Compensation) Act* 1991 (NSW), for the amount of $1.00.

(b) The Land Owner and the Council agree that:

(i) this paragraph 1.3 of this Schedule 5 is an agreement between them for the purposes of section 30 of the *Land Acquisition (Just Terms Compensation) Act* 1991 (NSW); and

(ii) in this paragraph 1.3 of this Schedule 5 they have agreed on all relevant matters concerning the compulsory acquisition and the compensation to be paid for the acquisition.

(c) Except as otherwise agreed between the Land Owner and the Council, the Land Owner must ensure that the Contribution Land is free of all Encumbrances (other than Permitted Encumbrances) and affectations (including any charge or liability for rates, taxes and charges), on the date that the Land Owner is liable to transfer the Contribution Land to the Council in accordance with paragraph 1.2 of this Schedule 5.

(d) The Land Owner indemnifies and keeps indemnified the Council against all claims made against the Council under the *Land Acquisition (Just Terms Compensation) Act 1991 (NSW)* as a result of any acquisition by the Council of the whole or any part of the relevant interest in land under paragraph 1.3 of this Schedule 5.

(e) The Land Owner must pay the Council, promptly on demand, an amount equivalent to all reasonable Costs and reasonable Legal Costs incurred by the Council acquiring the whole or any part of the relevant interest in land as contemplated by this Schedule 5.

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Schedule 6 - Notification and rectification of breach

1. Notice of breach

1.1 Notice of Breach by the Council

(a) If the Council considers that the Land Owner or the Contractor has defaulted on the performance of any of their respective obligations under this Deed, then the Council may give written notice to the defaulting party (**Defaulting Party**) (with a copy of the notice to the other party (**Non-Defaulting Party**)) (**Breach Notice**) which:

(i) identifies the nature of the breach; and

(ii) specifies that the breach must be rectified within at least 20 Business Days (except in the case of an emergency or where there is an issue of public safety where less time may be specified) of the Council's notice.

(b) Nothing in this Deed obliges the Council to issue a Breach Notice under this paragraph 1.1 of Schedule 6 but, until such time as the Council notifies the Defaulting Party of the breach:

(i) the Council may not rely on the breach to withhold its consent or exercise other rights under this Deed arising from or in connection with the breach; and

(ii) the Council may not assert that the Contractor or Land Owner has not complied with a pre-condition under the Deed so as to prevent the issue of a Subdivision Certificate, Occupation Certificate or Construction Certificate under the EP & A Act.

1.2 Land Owner's or Contractor's Response to Notice

(a) Promptly upon receipt of a Breach Notice under paragraph 1.1 of this Schedule 6, the Defaulting Party must either:

(i) rectify the breach identified in the Breach Notice within the time period specified in that notice; or

(ii) notify the Council in writing that it does not agree that the breach identified in the Breach Notice has occurred, and refer the matter for dispute resolution in accordance with clause 12and Schedule 7.

(b) In the absence of a manifest error on the face of the notice, nothing in paragraph 1.2(a)(ii) of this Schedule 6 will constrain or limit the Council's rights of recourse under this Deed.

1.3 Rights of the Council after Giving Notice

(a) If:

(i) the Defaulting Party does not take either of the actions outlined in paragraph 1.2(a) of this Schedule 6; or

(ii) any dispute notified by the Land Owner or the Contractor is resolved in favour of the Council,

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then the Council may take any or all of the actions available to it under this Deed including:

A. taking any action under paragraph 2.1 of this Schedule 6;

B. calling on the Bond under Schedule 10;

C. if the default specified in the Breach Notice relates to:

1) a failure by the Contractor to pay the Contribution Amount in accordance with this Deed; or

2) a failure by the Contractor to provide a Bond in accordance with this Deed,

then the Council may issue a notice to the Land Owner which:

3) identifies the nature of the breach; and

4) specifies that the breach must be rectified by the Land Owner within at least 20 Business Days (except in the case of an emergency or where there is an issue of public safety where less time may be specified) of the Council's notice,

and the provisions of paragraphs 1.2 and 1.3 of this Schedule 6 will apply in respect of that notice (with the necessary changes having been made) and if the Land Owner does not take either of the actions outlined in paragraph 1.2(a) of this Schedule 6 then the Council may have recourse against the Land Owner in relation to the breach.

(b) The rights of the Council under this Deed, and any action taken by it as referred to in paragraph 1.3(a) of this Schedule 6 or otherwise, are without derogation from the other rights and remedies available to the Council under this Deed, at Law and in equity in relation to any default of the Land Owner or the Contractor.

2. Council may rectify breach

2.1 Council may perform Contractor's and Land Owner's obligations

(a) Before exercising its rights under paragraph 2.1 of this Schedule 6, the Council will give at least 20 Business Days' (except in the case of an emergency or where there is an issue of public safety where less time may be specified) written notice to the Land Owner and the Contractor of its intention to exercise its rights under paragraph 2.1 of this Schedule 6.

(b) The Council may (but is not obliged to):

(i) perform the Contractor's or the Land Owner's obligations (as appropriate) where the Contractor or Land Owner (as appropriate) fails to:

A. rectify the breach identified in the notice referred to in paragraph 1.1 of this Schedule 6 within the time period specified in that notice; or

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B. notify the Council in writing that it does not agree that the breach identified in the notice referred to in paragraph 1.1 of this Schedule 6 and refer the matter for dispute resolution in accordance with clause 12 and Schedule 7;

(ii) rectify any breach of this Deed;

(iii) carry out other works that are necessary to be carried out; and

(iv) otherwise do anything which the Land Owner or the Contractor (as appropriate) should have done under this Deed.

(c) Without limiting paragraph 2.1 of this Schedule 6, the Council may enter onto the Land and do whatever is necessary to remedy the breach, in the absolute discretion of the Council, subject to compliance with the reasonable directions of the Land Owner and the Contractor relating to work, health and safety and compliance with all Laws.

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Schedule 7 - Dispute Resolution

1. Dispute

This Schedule 7 applies to:

(a) a dispute in connection with a technical matter which is not a legal matter arising from or in connection with this Deed or its subject matter and which is within the expertise of an expert appointed under paragraph 5 and which the Parties agree is a matter that should be determined by an expert (**Technical Dispute**); and

(b) any dispute which is not a Technical Dispute (**Non-Technical Dispute**),

(collectively, a **Dispute**).

2. Notice of Dispute

(a) If a Dispute between any of the Parties arises, then any Party may give to the other Parties a notice of dispute in writing adequately identifying and providing details of the Dispute (**Dispute Notice**).

(b) The Parties must continue to perform their respective obligations under this Deed if there is a Dispute but will not be required to complete the matter the subject of the Dispute or on which any Dispute has a bearing, unless each Party indemnifies the other Parties against Cost, damages and all losses suffered in completing the disputed matter if the Dispute is not resolved in favour of the indemnifying Party.

3. Further steps required before proceedings

(a) Except as provided in paragraph 3(b), any Dispute between Parties arising in connection with this Deed or its subject matter must as a condition precedent to the commencement of litigation first be the subject of mediation between a person appointed from time to time by each (under written notice to the other Parties) to represent that Party and:

(i) If the Parties to the dispute cannot agree on a mediator within 10 Business Days of receipt by the relevant Part of the Dispute Notice, any such Party may request the President of the New South Wales Law Society to appoint a mediator;

(ii) Each Party must use its best efforts to resolve the dispute by a mediation procedure to be agreed upon by each Party to the dispute; and

(iii) If the mediation does not result in the resolution of the dispute within 30 Business Days of the Dispute Notice, then any Party is entitled to commence litigation in respect of that dispute

(b) If the Dispute the subject of the Dispute Notice is:

(i) Technical Dispute the value of which is more than $1 million (excluding prospective Legal Costs); or

(ii) a Non-Technical Dispute,

the Dispute is to be referred to the CEOs.

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(c) If the CEOs are unable in good faith to settle the Dispute within 15 Business Days after the Dispute Notice (or such longer period as the CEOs may unanimously agree), then, unless the CEOs unanimously agree in writing to the contrary (including an agreement that this Schedule 7 will apply as if the Dispute were a Technical Dispute) any one Party may take whatever course of action it deems appropriate for the purpose of resolving the Dispute and the provisions of this Schedule 7 will not apply.

4. Disputes for expert determination

Subject to paragraph 3(b), if a Technical Dispute has not been fully resolved within 15 Business Days of the Dispute Notice (or such other date as the Parties may agree), any one Party may, with the prior written consent notice of each to the other Parties, refer the matter to an expert agreed between the Parties for determination in accordance with paragraph 5 with such expert to act in accordance with paragraph 7.

5. Choice of expert

(a) A Technical Dispute to be referred to an expert in accordance with paragraph 4 must be determined by an independent expert in the relevant field:

(i) agreed between and appointed jointly by the Parties to the Dispute based on the proposed list of experts in clause 5(c); or

(ii) in the absence of agreement within 5 Business Days of referral of the matter to expert determination under paragraph 4, appointed by the President or other senior officer for the time being of the body administering the relevant field.

(b) If the Parties cannot agree as to the relevant field, any one Party may refer the matter to the President of the New South Wales Bar Association (or the President's nominee) whose decision as to the relevant field is final and binding on the Parties.

(c) The institutes or associations from which the expert may be appointed include, without limitation:

(i) if the dispute relates to engineering:

the Institution of Engineers Australia; or

(ii) if the dispute relates to insurance:

the Australian and New Zealand Institute of Insurance and Finance, New South Wales Branch; or

(iii) if the dispute relates to the valuation of works to be carried out:

the Australian Institute of Quantity Surveyors, New South Wales Division; or

(iv) if the dispute relates to Contamination or Remediation:

the President of the Australian Contaminated Land Consultants Association.

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6. Requirements for expert

The expert appointed to determine a Technical Dispute:

(a) must have a technical understanding of the issues in contest;

(b) must not have a significantly greater understanding of one Party's business or operations which might allow the other side to construe this greater understanding as a bias or a conflict of interest; and

(c) must inform the Parties before being appointed of the extent of the expert's understanding of each Party's business or operations and, if that information indicates a possible bias, then that expert must not be appointed except with the written approval of the Parties.

The Parties must enter into an agreement with the expert appointed under this Schedule 7 setting out the terms of the expert's determination and the fees and expenses payable to the expert.

7. Directions to expert

In reaching a determination in respect of a Technical Dispute under paragraph 4, the independent expert must give effect to the intent of the Parties entering into this Deed.

8. Expert not arbitrator

The expert must:

(a) act as an expert and not as an arbitrator; and

(b) proceed in any manner as the expert thinks fit but must observe the rules of natural justice but not the rules of evidence, not accept oral submissions unless both Parties are present and on receipt of written submissions from one Party ensure that a copy of such submission is given promptly to the other Party;

(c) take into consideration all documents, information and other material which the Parties give the expert which the expert in its absolute discretion considers relevant to the determination of the Technical Dispute;

(d) not be expected or required to obtain or refer to any other documents, information or material (but may do so if the expert so wishes);

(e) issue a draft certificate stating the expert's intended determination giving each Party 15 Business Days to make further submissions;

(f) issue a final certificate stating the expert's determination; and

(g) act with expedition with a view to issuing the final certificate as soon as practicable.

9. Compliance with directions

The Parties must comply with all directions given by the expert in relation to the resolution of the Technical Dispute and must within a time period specified by the expert, give the expert:

(a) a short statement of facts;

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(b) a description of the Technical Dispute; and

(c) any other documents, records or information the expert requests.

10. Expert may commission reports

The expert may commission the expert's own advisers or consultants (including lawyers, accountants, bankers, engineers, surveyors or other technical consultants) to provide information to assist the expert in making a determination. The Parties must indemnify the expert for the cost of those advisers or consultants.

11. Expert may convene meetings

(a) The expert will hold a meeting with all the Parties present to discuss the Technical Dispute. The meeting must be conducted in a manner which the expert considers appropriate. The meeting may be adjourned to, and resumed at, a later time in the expert's discretion.

(b) The Parties agree that a meeting under this paragraph is not a hearing and is not an arbitration.

12. Final determination of expert

(a) The Parties agree that the final determination by an expert will be final and binding upon them.

(b) The expert or mediator will not be liable in respect of the expert determination or mediation, except in the case of fraud or misfeasance by the expert or mediator.

(c) The Parties agree to release and indemnify the expert from and against all claims, except in the case of fraud or misfeasance by the expert, which may be made against the expert by any person in respect of the expert's appointment to determine the Technical Dispute.

13. Other courses of action

If the Technical Dispute has not been fully resolved 45 Business Days of the Dispute Notice (or such other date as the Parties may agree) or the expert determination required or agreed under paragraph 3 has not resulted in resolution of the Technical Dispute, any one Party may take whatever course of action it deems appropriate for the purpose of resolving the Technical Dispute.

14. Confidentiality of information

The Parties agree, and must procure that, the mediator and expert agrees as a condition of his or her appointment:

(a) subject to paragraph 14(b) below, to keep confidential all documents, information and other material, disclosed to them during or in relation to the expert determination or mediation; and

(b) not to disclose any confidential documents, information and other material except:

(i) to a Party or adviser who has signed a confidentiality undertaking to the same effect as this paragraph 14; or

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(ii) if required by Law or the ASX Listing Rules to do so; or

(c) not to use confidential documents, information or other material disclosed to them during or in relation to the expert determination for a purpose other than the expert determination or mediation.

The Parties must keep confidential and must not disclose or rely upon or make the subject of a subpoena to give evidence or produce documents in any arbitral, judicial or other proceedings:

(d) views expressed or proposals or suggestions made by a Party or the expert during the expert determination or mediation relating to a possible settlement of the Technical Dispute; and

(e) admissions or concessions made by Party during the expert determination or mediation in relation to the Technical Dispute; and

(f) information, documents or other material concerning the Technical Dispute which are disclosed by a Party during the expert determination or mediation unless such information, documents or facts will have been otherwise discoverable in judicial or arbitral proceedings.

15. Costs

The Costs of appointing a mediator or expert under this Schedule 7 will be borne equally by the Parties. Each Party will be responsible for its own Legal Costs.

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Schedule 8 - Registration of Deed

1.1 Registration

(a) The Land Owner agrees to procure the registration of this Planning Agreement in the relevant folio of the Register for the Land in accordance with section 7.6 of the EP&A Act and this Schedule 8.

(b) The Land Owner, at its Cost and risk, as soon as reasonably practicable (but in any event no later than 20 Business Days after the execution of this Deed by the Council) take all practical steps and otherwise do anything that the Council reasonably requires:

(i) to procure:

A. the consent of each person who:

1) has an estate or interest in the Land registered under the Real Property Act; or

2) is seized or possessed of an estate or interest in the Land; and

B. the execution of any documents; and

C. the production of the relevant certificates of title,

to enable the registration of this Planning Agreement under the Real Property Act by the Registrar-General in the relevant folio of the Register for the Land in accordance with section 7.6 of the EP&A Act; and

(ii) to procure registration of this Planning Agreement in the relevant folio of the Register for the Land in accordance with section 7.6 of the EP&A Act.

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Schedule 9 - Release and Discharge Terms

(a) Once the Council is satisfied that the Contractor and the Land Owner has fully complied with all of its obligations under this Deed, at the Contractor's or Land Owner's request (and Cost), the Council agrees to:

(i) provide a full release and discharge of this Deed with respect to the whole of the Land; and

(ii) sign such documentation as is necessary to withdraw any caveat lodged by the Council in relation to the Land pursuant to clause 5; and

(iii) sign such documentation as is necessary to release this Deed registered on the folios of the Register of the Land.

(b) Despite paragraph (a) above of this Schedule 9, from time to time, the Land Owner or Contractor may request the Council to provide a release and discharge of the Planning Agreement to the extent the Planning Agreement affects any Development Site where:

(i) the Land Owner and Contractor have satisfied their obligations under this Planning Agreement (including paying any relevant Contribution Amount) in respect of that Development Site or provided security to the Council's satisfaction (in its sole and unfettered discretion) to secure performance of any outstanding obligations under this Planning Agreement in respect of that Development Site;

(ii) to the extent the Defects Liability Period for any Contribution Works Portion the subject of that Development Site has not expired, the Contractor has provided the Council with a Bond in accordance with Schedule 10; and

(iii) the Land Owner and the Contractor are not otherwise in Material Default of any of their obligations under this Planning Agreement (as determined by the Council (acting reasonably)) in respect of that Development Site, at the time of the Land Owner's or Contractor's request, unless the Council waives the default.

(c) If the conditions in paragraph (b) of Schedule 9 are satisfied, the Council will provide a release and discharge of the Planning Agreement in respect of the Development Site only, which will be registered in priority to the plan of strata subdivision of that Development Site.

(d) Following registration of this Planning Agreement in the relevant folio of the Register, the Contractor or the Land Owner may request the Council to remove any caveat registered on the Land under clause 5 and the Council must do all things reasonably necessary to withdraw the caveat as soon as possible after such request.

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Schedule 10 - Bonds

1. Bonds Required

1.1 Contractor to provide Bond

(a) The Contractor must provide:

(i) the Second Remediation Bond to the Council for the Second Remediation Bond Amount prior to the issue of the first Construction Certificate for the first Building on Development Site 8A, 8B, 8C or 8D:

(ii) the Road Works Bond to the Council for the Road Works Bond Amount prior to the issue of the first Construction Certificate for the Building adjoining that part of the Contractor Road Works; and

(iii) the Contribution GI Works Bond for each Building on the Land to the Council for the Contribution GI Works Bond Amount prior to the issue of the first Construction Certificate for the Building in which the Contribution GI Works are to be constructed.

1.2 Reduction of the Bonds for the Bond Works

(a) Subject to paragraph 1.2(b) of this Schedule 10, the Contractor may by written notice to the Council, upon Practical Completion of any part of the Bond Works, request a reduction of the Remediation Bond Amount or the Road Works Bond Amount (as the case may be) having regard to the works completed at the time of the request. The Council will act reasonably in the consideration of whether a partial release or exchange (as the case may be) leaves appropriate or adequate security for the balance of the Bond Works.

(b) If the Contractor provides a Quantity Surveyor's assessment of the Bond Works and the Construction Cost with its request under paragraph (a) and Council (acting reasonably) is satisfied that the relevant Bond Works have achieved Practical Completion, then the Council must release to the Contractor a reasonable portion of the Bond having regard to the Construction Cost of the relevant completed Bond Works.

(c) The Contractor acknowledges and agrees that, to secure the Contractor's obligations under paragraph 1.25 of Schedule 4 during the Defects Liability Period for each component of the Bond Works:

(i) the value of the Remediation Bond must not be reduced to an amount which is less than 10 per cent of the Remediation Bond Amount; and

(ii) the value of the Road Works Bond must not be reduced to an amount which is less than 10 per cent of the Road Works Bond Amount.

(d) For the avoidance of doubt, the Contribution GI Works Bond will not reduce in accordance with this clause 1.2 of Schedule 10. The Contribution GI Works Bond will be returned to the Contractor on expiry of the Defects Liability Period for that component of the Contribution GI Works to which the Contribution GI Works Bond relates.

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1.3 Adjustment of Bond Amounts

(a) On each Adjustment Date the Bond Amounts are to be adjusted to the Revised Bond Amount as determined in accordance with the following formula:

$$RBA = \frac{BA \times A}{B}$$

where:

RBA is the Revised Bond Amount applicable from the relevant Adjustment Date;

BA is the Bond Amount that is current on the relevant Adjustment Date;

A is the CPI published immediately before the relevant Adjustment Date (and in the case of the first adjustment, 30 June 2012);

B is the CPI published immediately before the date of this Deed and, in the case of subsequent adjustments, the immediately preceding Adjustment Date.

No increase or other change will be made to the Revised Bond Amount where B is greater than A or where the Revised Bond Amount is less than 10 per cent of the Bond Amounts.

(b) The Council must give the Contractor written notice of the Revised Bond Amounts to apply from the relevant Adjustment Date.

(c) The Contractor must give the Council replacement or further Bonds so that the Council holds Bonds for an amount equal to the Revised Bond Amounts no later than 15 Business Days after receipt of a notice given under paragraph 1.3(b) of this Schedule 10.

2. Face value of Bond

If a Bond is required to be provided by the Contractor to the Council under this Deed, then the Contractor must procure and give to the Council a Bond with a face value of an amount equivalent the amount and at the time specified in this Deed.

3. Expiry of Bonds

If, despite the requirements of this Deed, any Bond provided by the Contractor is expressed as expiring on a certain date, the Contractor must provide the Council with a replacement Bond 20 Business Days prior to the expiry of any Bond subject to paragraph 4 of this Schedule 10.

4. Failure to replace expired Bond

If the Contractor fails to provide the Council with a replacement Bond in accordance with paragraph 3 of this Schedule 10, the Council may call on the full amount of such Bond after giving 10 Business Days prior written notice to the Contractor.

5. No limitation of obligations

The provision of the Bond does not:

(a) relieve the Contractor from any of its obligations under any other provision of this Deed; or

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(b) limit the right of the Council to recover from the Contractor in full all money payable to the Council under this Deed, including without limitation, interest on any such amounts or damages or other losses incurred by the Council.

6. Cash deposit

(a) If the Council makes demand under any Bond pursuant to paragraph 4 of this Schedule 10, the Council must hold the full amount so paid to the Council as a cash deposit (**Cash Deposit**) in a separate account opened with any body corporate that is an ADI (authorised deposit-taking institution) for the purposes of the Banking Act, 1959 in the name of the Council and with beneficial ownership vesting at all times in the Council (**Cash Deposit Account**). The Cash Deposit will operate to secure the same obligations under this Deed that the relevant Bond secured.

(b) As beneficial owner of the Cash Deposit, the Council may, at any time and without notice to the Contractor, withdraw money (including accrued interest) from the Cash Deposit Account and retain that money absolutely to satisfy or reimburse the Council for any liability, loss, cost, charge or expense incurred by the Council because of failure by the Contractor to comply with those of the Contractor's obligations under this Deed that the relevant Bond secured.

(c) All Costs, charges, duties and taxes payable in connection with the Cash Deposit Account or interest accruing on moneys credited to the Cash Deposit Account may be satisfied by the Council withdrawing money from the Cash Deposit Account and applying the money for that purpose.

(d) If no moneys are, or may become, payable to the Council under this Deed in connection with the obligations under this Deed secured by the relevant Bond and the Contractor has satisfied all of its obligations under this Deed which were secured by the relevant Bond, the Council must pay the balance of the Cash Deposit Account, less all Costs, charges, duties and taxes payable in connection with such payment, to the Contractor.

(e) For the avoidance of doubt, the Contractor has no right to require the Council to release the Cash Deposit until the Council is reasonably satisfied that no moneys are, or may become, payable to the Council under this Deed in relation to obligations secured by the relevant Bond.

7. Release of Cash Deposit

The Council must release the Cash Deposit to the Contractor if the Contractor provides the Council with a replacement Bond complying with the requirements of paragraph 3 of this Schedule 10.

8. Claims under Bond

(a) The Contractor agrees that the Council may make claims under a Bond provided by it on the following basis the Council may call upon the Bond (in full or in part) in the event that:

(i) the Contractor breaches its obligation to carry out and complete any of the Bond Works in accordance with this Deed; and

(ii) a notice has been issued by Council requiring the Contractor to remedy the breach in accordance with the requirements of paragraph 1 of

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Schedule 6, and the breach remains unremedied following the expiry of the rectification period specified in that notice,

and retain and use such monies to compensate the Council for the Contractor's breach of those obligations.

(b) The Council must take reasonable steps to mitigate its losses.

(c) The Council must not make a claim under a Bond in bad faith or unconscionably.

9. Further Bond Obligations if Landcom not the Land Owner

(a) This paragraph 9 of Schedule 10 only applies if:

(i) Landcom has sold and transferred any part of the Land (Sold Land); or

(ii) Landcom is no longer a wholly owned government entity.

(b) The Contractor must provide a Bond for the amount of the total unpaid Contribution Amount to secure the obligations to pay the DRS component of the Contribution Amounts (Contribution Amounts Bond) payable:

(i) in respect of the Sold Land, where Landcom has sold and transferred the Sold Land; or

(ii) the whole of the Land, if Landcom is no longer a wholly owned government entity,

and the provisions of Schedule 10 will apply to that Bond.

(c) The Parties agree the amount of the Contribution Amounts Bond will reduce progressively by an amount equivalent to each Contribution Amount after that Contribution Amount has been paid to the Council.

(d) In this clause, the DRS component of the Contribution Amounts in respect of the following Development Sites means, as at 30 June 2012:

(i) in respect of Development Site 8A, $4,428,787.94

(ii) in respect of Development Site 8B, $3,109,320.85

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Schedule 11 - Assignment and Dealing

1.1 Contractor's and Land Owner's proposed assignment of rights

(a) Unless the matters specified in paragraph 1.1(b) of this Schedule 11 are satisfied and subject to paragraph 1.1(c) of this Schedule 11, the Contractor and the Land Owner are not to assign or novate to any person the Contractor's or the Land Owner's rights or obligations under this Deed.

(b) The Contractor or the Land Owner must not assign or novate to any person its rights or obligations under this Deed and the Land Owner must not transfer the whole or any part of the Land or its interest in the Land unless the prior written consent of Council is obtained. The Council must not unreasonably withhold its consent in circumstances where the following matters have been satisfied:

(i) the Contractor or the Land Owner (as the case may be) has, at no cost to the Council, first procured the execution by the person to whom the Contractor's or the Land Owner's rights or obligations under this Deed are to be assigned or novated (**incoming party**), of a deed poll in favour of the Council in the form of Schedule 15, completed in a manner satisfactory to the Council. Such deed includes covenants that the incoming party:

A. will perform the obligations of the Contractor or the Land Owner (as the case may be) under this Deed; and

B. is bound by the terms and conditions of this Deed (relevant to the Contractor or the Land Owner (as the case may be) as if the incoming party had executed the Deed;

(ii) the Contractor or the Land Owner (as the case may be) demonstrates to the reasonable satisfaction of the Council that:

A. the incoming party is solvent;

B. the incoming party or related entity has experience in or can demonstrate the capacity to carry out staged medium or high density developments with a Gross Floor Area of at least 50,000 m² (or in the case of any transfer, assignment or novation with respect of a portion of the Land, then the proposed gross floor area of that portion, whichever is lesser); and

C. the incoming party provides to the Council a letter undertaking that any development of the Land will meet the Green Infrastructure requirements of this Deed; and

(iii) the Contractor and the Land Owner are not in Material Breach of this Deed with respect to the relevant part of the Land in case of an assignment or novation of the Contractor or the Land Owner's interest in part of the Land only, unless the relevant breach is waived by the Council.

(c) Paragraph 1.1 of Schedule 11 does not apply to the Land Owner taking on the Contractor's rights and obligations under this Deed pursuant to clause 20.

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1.2 Right of Land Owner to sell Land

(a) The Land Owner must not sell or transfer the whole or any part of the Land (and must procure that the whole or any part of the Land is not sold or transferred) prior to this Deed being released and discharged from title to that Land (or any part of it) unless before any such sale, transfer or disposal of any such part of the Land or such part of their interest in the Land to another person (**Transferee**) the Land Owner obtains Council's prior written consent. The Council must not unreasonably withhold its consent in circumstances where:

(i) the requirements specified in paragraph 1.1(b) of this Schedule 11 are satisfied, with the exception of paragraph 1.1(b)(ii)(B) of this Schedule 11 in circumstances where the Transferee will not be carrying out the Development; and

(ii) the Council is satisfied that the Transferee has sufficient financial standing to meet the obligations under the Planning Agreement relevant to the Land or part of the Land being transferred, including to provide the relevant Bonds (if any).

(b) This paragraph 1.2 does not apply to:

(i) the transfer of a single lot in a strata plan (irrespective of whether the strata plan has been registered);

(ii) the off-the-plan sale of a stratum lot (irrespective of whether the plan of subdivision has been registered) for retail or commercial purposes which will not complete until after the Completion Date;

(iii) the transfer of a lot to a utility provider which is required for the purposes of utilities or services; and

(iv) any other lot agreed to by the Council.

1.3 Right to grant mortgage or charge

The Contractor or the Land Owner may grant a mortgage over any part of the Land or other charge or security interest in connection with its rights and interest in such Land without the Council's prior written consent provided that the Parties and the incoming financier enter into a deed on the terms reasonably required by the Council including that the mortgagee or charge of the Contractor or the Land Owner's right, title and interest in this Deed and/or any part of the Land, covenants with the Council to comply with the Contractor or the Land Owner's obligations under this Deed if, and for so long as, the mortgagee goes into possession of any part of the Land, including this Schedule 11 if the mortgagee sells the Land or any part or disposes of the Contractor's interest in the Development.

1.4 Council's Costs

The Contractor must pay to the Council (or reimburse the Council on demand) for all the reasonable Costs and reasonable Legal Costs incurred by the Council in connection with any assignment or dealing proposed under paragraphs 1.1 or 1.2 of this Schedule 11.

1.5 Council's assignment of rights

Council may assign its rights under this Deed to any successor in title.

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Schedule 12 - Access Rights

1.1 Land Owner warranty

The Land Owner warrants that it has granted (and will at all times grant) the Contractor such access to the Land and other rights as is necessary to enable the Contractor to perform its obligations under this Deed (including undertaking the Contribution WIK (and all ancillary and related works)).

1.2 Council to grant Contractor access

(a) The Parties acknowledge that the Council has required the transfer of the Contribution Land at an early stage in the program of the Development. As a consequence of the early transfer, the Contractor will from time to time require access to and other rights over the Contribution Land and other land owned by the Council (in the vicinity of the Land) for the purpose of completing the Development and any of the Contribution Works. This clause 1.2 sets out the basis on which access and other rights will be granted to the Contractor (including any of its employees, officers, contractors, subcontractors and agents).

(b) Subject to paragraph 1.2(c) of this Schedule 12 and at the Contractor's request, the Council will allow the Contractor (including any of its employees, officers, contractors, subcontractors and agents) access to the Contribution Land (after it is transferred to the Council) and other land owned by Council (within the vicinity of the Land) for the purpose of carrying out works associated with the:

(i) Development;

(ii) any of the Contribution Works; or

(iii) as otherwise agreed.

(c) If requested, the Council agrees to grant such licences or other rights (as are reasonably necessary) over the Contribution Land or other land owned by Council (in the vicinity of the Land) to enable the Contractor (including any of its employees, officers, contractors, subcontractors and agents) to carry out the Development or to perform the Contractor's obligations under this Deed.

(d) The Parties acknowledge that such licence or rights will be on such terms as the Council reasonably requires including provisions requiring the Land Owner, when exercising such rights in respect of the Contribution Land or any other land owned by Council (in the vicinity of the Land), to:

(i) limit the duration of the rights to a maximum of 2 years from the date of issue of the Construction Certificate relating respectively to each of the Buildings shown in the Access Plan or such other time as is agreed in writing between the Parties;

(ii) cause as little damage as reasonably possible;

(iii) where any damage is caused, restore the land and any improvements on the land to their condition as at commencement of occupation by the Contractor (including its employees, officers, subcontractors and agents);

(iv) minimise disruption to the use of the land adjoining any licensed areas owned by Council;

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(v) comply with the Council's work hours, lighting, insurance, occupational health and safety requirements;

(vi) indemnify Council on terms reasonably required by the Council in connection with the Contractor's use of the licensed area or the Contractor's default.

(e) Any request for access by the Contractor to the Council must be in writing and must be made at least 5 Business Days in advance of the proposed date of access

and the Contractor and the Council will enter into legally binding documentation which confirms these arrangements prior to access being granted to the Contractor.

(f) The Contractor must ensure that its contractors and its authorised representatives do not breach this clause 1.2 of this Schedule 12.

(g) Notwithstanding any other provision of this Deed, it is the intention of the Parties that the Land Owner and the Contractor will not be liable for fees or charges in respect of the Development on the Land which (but for the early transfer of the Contribution Land) would not have been payable if the Land Owner were the registered proprietor of the Contribution Land throughout the Development (other than statutory fees and charges). To that end, the Council agrees that it will not impose any special charge, rental or licence fee for the Contractor's access or other rights granted under this clause 1.2 of this Schedule 12.

(h) The Council must, if access is granted to the Contractor and the Land Owner under this paragraph 1.2:

(i) comply with all reasonable directions of the Contractor or the Land Owner's site co-ordinator;

(ii) all relevant Laws including the *Work Health and Safety Act 2011;* and

(iii) any site awards or conditions as applicable;

1.3 Land Owner and Contractor to grant Council access

(a) Subject to paragraph (b) and (c), the Land Owner and the Contractor grants to the Council and its authorised representatives a non-exclusive licence to use and access the Contribution Lands for construction purposes, including to survey the Contribution Lands and construct infrastructure and install essential services as shown on the Access Plan without payment of rent, licence fee or other occupation payment by the Council

(b) This licence immediately terminates in respect of any part of the Contribution Lands which the Land Owner or Contractor no longer own or control.

(c) The Council:

(i) when exercising its rights under the licence granted under this clause, must:

A. cause as little damage as reasonably possible;

B. where any damage is caused, restore the Land and any improvements on the Land to their condition as at

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commencement of occupation by the Council and Council's contractors;

C. minimise disruption to the use of the Land, including use of the Land by the Land Owner, the Contractor (including the carrying out by the Contractor of the Contribution GI Works and the Development) and anyone else lawfully on the Land;

D. comply with the Contractor's work hours, lighting, insurance, work health and safety requirements (to the extent that these requirements do not infringe any Laws, do not have a material impact on the Development Program and are not inconsistent with any Approval (including the Development Consent) and the reasonable requirements of the Land Owner and Contractor under this Deed);

E. comply with all reasonable directions of the Contractor or Land Owner's site co-ordinator;

F. co-operate fully with other contractors working on the Land and not interfere with the other contractors to execute their work;

G. comply with all relevant Laws including the Work Health and Safety Act 2011 and Work Health and Safety Regulations 2017; and

H. comply with any site awards or conditions as applicable.

(ii) indemnifies the Contractor and the Land Owner from and against damage, loss, injury and death caused by the negligence, default or unlawful acts of Council or any of Council's contractors while accessing the Contribution Lands under this licence except to the extent caused or contributed to by a negligent or wrongful act or omission of the Contractor, the Land Owner or their officers, agents, employees, licensees or contractors contributed to the liability.

A. Any request for access by Council to the Land Owner and Contractor must be in writing and must be made at least 5 Business Days prior to access being granted to Council.

B. Council must ensure its contractors do not breach this clause 1.3 of Schedule 12.

C. The Land Owner and the Contractor may, acting reasonably, instruct Council to remove its contractor, equipment and materials from the Land and may exclude that contractor from the Land in the case of breach of this clause 1.3 of Schedule 12.

D. Council acknowledges that the Land Owner and the Contractor are not responsible for supervising or co-ordinating the Council's works under this licence nor has the Land Owner or the Contractor undertaken any obligation or assumed any duty of care in respect of those works.

(d) Council must:

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(i) effect and maintain, or ensure that its contractors effect and maintain, in connection with the Council's works under this licence, contract works insurance, public liability insurance and workers compensation insurance as required by Law; and

(ii) provide to the Land Owner and Contractor, upon request, certificates of currency in respect of those insurances.

A. To the extent that Council's contractors are not covered by the insurances of Council, Council must procure that Council's contractors comply with paragraph 1.3(h) of this Schedule 12.

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Schedule 13 - General Provisions

1.1 Approvals and Consent

Except as otherwise set out in this Deed, and subject to any statutory obligations, a Party will not unreasonably withhold an approval or consent to be given under this Deed but may give its approval or consent subject to any conditions reasonably determined by that Party.

1.2 Costs

(a) Unless otherwise specified in this Deed, all Costs and Legal Costs relating to this Deed are to be borne by the Parties in the proportions specified in Schedule 14 and are payable on demand.

(b) Without limiting paragraph 1.2(a) of this Schedule 13, the Contractor or the Land Owner (as applicable) agrees to pay or reimburse the Council on demand for:

(i) Costs and Legal Costs of the Council in connection with:

A. exercising, enforcing or preserving, , enforce or preserve, rights under this Deed, including in connection with the Contractor or the Land Owner's default but only where the Council is successful in exercising, enforcing or preserving its rights;

B. any waiver, variation, release or discharge of this Deed requested by the Contractor or the Land Owner; and

(ii) Taxes and fees (including, without limitation, registration fees) and fines and penalties in respect of fees which may be payable or determined to be payable in connection with this Deed or a payment or receipt or any transaction contemplated by this Deed.

(c) Without limiting paragraph 1.2(a) of this Schedule 13, the Council agrees to pay or reimburse the Contractor or the Land Owner (as applicable) on demand for:

(i) Costs and Legal Costs of the Contractor or the Land Owner (as applicable) in connection with:

A. exercising, enforcing or preserving, or attempting to exercise, enforce or preserve, rights under this Deed, including in connection with the Council's default but only where the Contractor or the Land Owner (as applicable) is successful in exercising, enforcing or preserving its rights;

B. any waiver, variation, release or discharge of this Deed requested by the Council.

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1.3 Effect of terms and conditions in Schedules and Annexures

The Parties agree to comply with the terms and conditions contained in the Schedules and Annexures as if those terms and conditions where expressly set out in full in the operative parts of this Deed.

1.4 Entire agreement

To the extent permitted by law, in relation to its subject matter only, this Deed:

(a) embodies the entire understanding of the parties, and constitutes the entire terms agreed by the Parties; and

(b) supersedes any prior written or other agreement of the Parties.

1.5 Further acts

Each Party must promptly execute all documents and do all things that another party from time to time reasonably requests to affect, perfect or complete this Deed and all transactions incidental to it.

1.6 Governing Law and jurisdiction

This Deed is governed by the law of New South Wales. The Parties submit to the non-exclusive jurisdiction of its courts and courts of appeal from them. The Parties will not object to the exercise of jurisdiction by those courts on any basis.

1.7 Enforcement

(a) This Deed may be enforced by any Party in any court of competent jurisdiction.

(b) For the avoidance of doubt, nothing in this Deed prevents:

(i) a Party from bringing proceedings in the Land and Environment Court to enforce any aspect of this Deed or any matter to which this Deed relates; and

(ii) an Authority or the Council from exercising any function under the EP&A Act or any other Law relating to the enforcement of any aspect of this Deed or any matter to which this Deed relates.

1.8 No fetter

Nothing in this Deed is to be construed as requiring an Authority (including the Council) to do anything that would cause it to be in breach of any of its obligations at Law, and without limitation:

(a) nothing in this Deed is to be construed as limiting or fettering in any way the exercise of any statutory discretion or duty; and

(b) nothing in this Deed imposes any obligation on an Authority to:

(i) grant any Development Consent; or

(ii) exercise any function or power under the EP&A Act in relation to a change, or a proposed change, in an environmental planning instrument.

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1.9 Representations and warranties

Each Party each individually represents and warrants that:

(a) (**power**) it has power to enter into this Deed and comply with its obligations under the Deed;

(b) (**no contravention or exceeding power**) this Deed does not contravene its constituent documents (if any) or any law or obligation by which it is bound or to which any of its assets are subject, or cause a limitation on its powers or the powers of its officers to be exceeded;

(c) (**authorisations**) it has in full force and effect the authorisations necessary for it to enter into this Deed to which it is a party, to comply with its obligations and exercise its rights under this Deed and to allow this Deed to be enforced;

(d) (**validity of obligations**) its obligations under this Deed are valid and binding and are enforceable against it in accordance with the terms of the Deed;

(e) (**no immunity**) does not have immunity from the jurisdiction of a court or from legal process;

(f) (**benefit**) it benefits by entering into this Deed to which it is a Party; and

(g) (**capacity**) it does not enter this Deed as an agent for any other person or as trustee of any trust or on behalf or for the benefit of any other person.

Each Party acknowledge that each other Party has entered into this Deed to which it is a party in reliance on the representations and warranties in this paragraph 1.9 of this Schedule 12.

1.10 Severability

(a) If a clause or part of a clause of this Deed can be read in a way that makes it illegal, unenforceable or invalid, but can also be read in a way that makes it legal, enforceable and valid, it must be read in the latter way.

(b) If any clause or part of a clause is illegal, unenforceable or invalid, that clause or part is to be treated as removed from this Deed, but the rest of this Deed is not affected.

1.11 Modification

No modification of this Deed will be of any force or effect unless it is in writing and signed by the Parties as a Deed.

1.12 Waiver

(a) The fact that a Party fails to do, or delays in doing, something the Party is entitled to do under this Deed, does not amount to a waiver of any obligation of, or a breach of obligation by, another Party.

(b) A waiver by a party is only effective if it is in writing.

(c) A written waiver by a party is only effective in relation to the particular obligation or breach in respect of which it is given. It is not to be taken as an implied waiver of any other obligation or breach or as an implied waiver of that obligation or breach in relation to any other occasion.

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1.13 Confidentiality

The Parties agree that the terms of this Deed are not confidential and this Deed may be treated as a public Deed and exhibited or reported without restriction by any Party.

1.14 Release and indemnity

(a) The Contractor and the Land Owner each agree that the obligation to provide the Contributions is at the risk of the Contractor and the Land Owner (as applicable).

(b) The Contractor and the Land Owner each release the Council from any claim, liability or loss arising from, and Costs and Legal Costs incurred in connection with, the Contractor's and the Land Owner's obligation to provide the Development Contributions.

(c) The Contractor and the Land Owner each indemnify and will keep indemnified the Council from and against all claims, actions, demands, losses, damages, Costs and Legal Costs (**Loss**) incurred by the Council or for which the Council may become liable in connection with:

(i) the Council enforcing the Contractor's or the Land Owner's (as the case may be) obligation to provide the Contributions in accordance with this Deed; and/or

(ii) the Council exercising the Council's rights under or by virtue of this Deed, including the exercise or purported exercise of the rights of the Council' rights under paragraph 2.1 of Schedule 6,

except to the extent caused or contributed to by a negligent or wrongful act or omission of the Council or its officers, agents, employees, licensees or contractors contributed to the liability or where the Council has exercised its rights in breach of this Deed.

(d) The indemnity in paragraph 1.14(f) of this Schedule 13 is a continuing obligation, independent of the Contractor's or the Land Owner's other obligations under this Deed and continues after this Deed ends.

(e) It is not necessary for a Party to incur expense or to make any payment before enforcing a right of indemnity conferred by this 1.14.

(f) A Party must pay on demand any amount it must pay under an indemnity in this clause 1.14.

1.15 Mutual exclusion for Consequential Loss

(a) Subject to clause 1.15(b) of Schedule 13, but otherwise notwithstanding any other provision of this Deed (including any indemnity) no Party will be liable to any other party for any Consequential Loss suffered by a Party arising under or in connection with this Deed in respect of any claim.

(b) Clause 1.15(a) shall not operate to limit or restrict in any way any Parties' liability:

(i) for any debt or other amount payable to or recoverable by another Party under an express provision of this Deed, excluding, for the avoidance of doubt, any amount payable or recoverable under an indemnity;

(ii) for fraud;

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(iii) for any act or omission done or omitted to be done with the intention of causing substantially harmful consequence or with conscious indifference to the rights or welfare of those who are or may be affected;

(iv) to the extent that the relevant Party has:

A. recovered from a third party (including any subcontractor and whether by way or indemnity or otherwise); or

B. would have recovered from a third party, had it promptly claimed and diligently pursued a claim against a third party,

an amount in respect of that liability;

(v) to the extent such liability:

A. is covered by a policy of insurance in the relevant Party's name; or

B. would have been covered by a policy of insurance in the relevant Party's name but is not because that Party did not:

1) promptly claim and diligently pursue a claim under the policy of insurance; or

2) comply with the terms and conditions (including in respect of disclosure obligations) of that policy or insurance or its insurance obligations under this Deed; and

(vi) which by law cannot be limited or excluded.

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Schedule 14 - Costs

Contractor is to pay 100% of Costs and reasonable Legal Costs associated with the preparation and execution of this Deed up to an amount of $6,380 .

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Schedule 15 - Pro-forma Novation Deed

Novation Deed

[*Planning Authority*]
Council

[*Land Owner*]
Land Owner

[*Contractor*]
Contractor

[Insert Transferee's name]
Transferee

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Novation Deed made at **on**

Parties **[*insert*]**
(Council)

[*insert*]
(Land Owner)

[*insert*]
(Contractor)

[Insert Transferee's name] of *[insert]* **(Transferee)**

Recitals

A The Council, the Contractor and the Land Owner are parties to the Original Agreement.

B The Original Agreement relates to the whole of the Land.

C The Transferor wishes to ***[insert details of the transfer]***.

This deed provides

1. Definitions and interpretation

1.1 Definitions

Continuing Party means [ ].

Effective Date means [*insert*].

Land has the meaning given to that term in the Original Agreement.

Original Agreement means the voluntary planning agreement dated [*insert*] and made between the Council, the Contractor and the Land Owner .

Transferor means ***[insert]***.

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1.2 References to certain general terms

In this deed unless the contrary intention appears:

(a) a reference to this deed or another instrument includes any variation or replacement of them;

(b) a reference to a statute, ordinance, code or other law includes regulations and other instruments under it and consolidations, amendments, re-enactments or replacements of any of them;

(c) the singular includes the plural and vice versa;

(d) the word person includes a firm, body corporate, an unincorporated association or an authority;

(e) a reference to a person includes a reference to the person's executors, administrators, successors, substitutes (including, without limitation, persons taking by novation) and assigns;

(f) an agreement, representation or warranty on the part of or in favour of two or more persons binds or is for the benefit of them jointly and severally;

(g) a reference to any thing (including, without limitation, any amount) is a reference to the whole or any part of it and a reference to a group of persons is a reference to anyone or more of them;

(h) "include" in any form when introducing a list of items does not limit the meaning of the words to which the list relates to those items or to items of a similar nature; and

(i) capitalised terms which are used in this deed but are not otherwise defined have the meaning given to them in the Original Agreement.

1.3 Headings

Headings are inserted for convenience and do not affect the interpretation of this deed.

2. Novation

2.1 Original Agreement

Subject to clause 2.2 and with effect from the Effective Date:

(a) the Transferee is substituted for the Transferor as a party to the Original Agreement, and agrees to perform the all obligations and discharge all liabilities under the Original Agreement which, but for this deed, the Transferor would have been required to perform or discharge at and after the Effective Date;

(b) the Transferee will be bound by the Original Agreement, and will be entitled to the benefit of the Original Agreement which but for this deed the Transferor would have been entitled at and after the Effective Date, as if the Transferee was a party to the Original Agreement instead of the Transferor;

(c) the Continuing Party releases and discharges the Transferor from all obligations and liabilities, and from all obligations and liabilities under the Original Agreement to be performed or discharged at or after the Effective Date; and

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(d) the Transferor releases each/the Continuing Party from all obligations and liabilities under the Original Agreement to be performed or discharged at or after the Effective Date.

2.2 Liability before Effective Date

Notwithstanding clause 2.1, the Transferor and the Continuing Party are not released, relieved or discharged from any obligation or liability under the Original Agreement before the Effective Date, or any breach of any provision of the Original Agreement by the Transferor occurring before the Effective Date (to the extent that it is not remedied by the Effective Date).

3. Affirmation of the Original Agreement

The Original Agreement will be read and construed subject to this deed, and in all other respects the provisions of the Original Agreement are ratified and confirmed, and, subject to the variation and novation contained in this deed, the Original Agreement will continue in full force and effect.

4. GST

Where a supply made under this deed gives rise to a liability for GST, the consideration to be provided for that supply (other than under this clause) shall be increased by an additional amount equal to the GST payable on the supply. The additional amount must be paid, and the supplier must provide a tax invoice, at the same time as the other consideration for that supply is to be provided under this deed. Terms used in this clause have the meanings in the *A New Tax System (Goods and Services Tax) Act 1999*.

5. Stamp duty and costs

(a) The Transferor and the Transferee are jointly and severally liable for the Council's Legal Costs of and incidental to the negotiation, preparation and execution of this deed, and must reimburse the Council for such Legal Costs promptly on demand.

(b) The Transferee will pay all stamp duty arising directly or indirectly from this deed.

6. Further acts

(a) Each party will take all steps, execute all deeds and do everything reasonably required by any other party to give effect to any of the actions contemplated by this deed.

(b) This deed binds each party which signs it even if other parties do not, or if the execution by other parties is defective, void or voidable.

7. Governing law

This deed is governed by the law in force in the place specified in the New South Wales and the parties submit to the non-exclusive jurisdiction of the courts of that place.

8. Counterparts

This deed may consist of a number of counterparts and the counterparts taken together constitute one and the same instrument.

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Executed as a deed.

[*insert Appropriate execution clauses for the Council, Contractor and Land Owner*]

Executed by **[insert Transferee]** in accordance with section 127 of the *Corporations Act* by or in the presence of:

Signature of Secretary/other Director	Signature of Director
Name of Secretary/other Director in full	Name of Director in full

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Schedule 16 - Development Program

Contractor's indicative Development Program

Development Site/Area	Construction		Settlement	
	Commence	Complete	Commence	Complete
Development Sites 8A&B	Sep-25	Nov-28	Dec-28	Dec-28

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Schedule 17 - Not used

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Schedule 18 - Access Plan

MAP4 - ACCESS PLAN
STAGE 5



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Schedule 19 - Allocation of Essential Infrastructure DA conditions

The Parties agree that the conditions in any consent to the Essential Infrastructure DA will be allocated as follows:

1. to the Contractor , all conditions, to the extent that those conditions are consistent with Table 3 of Schedule 3, relating to:
    a. the Stage 1 Remediation, including ongoing monitoring in accordance with clause 1.28 of Schedule 4;
    b. Earthworks relating to the Stage 1 Remediation on the Land; and
    c. any other conditions but only so far as they relate to the Stage 1 Remediation and earthworks relating to the Stage 1 Remediation on the Land.
2. to the Council, all other conditions including:
    a. all conditions required to be satisfied before the commencement of the Stage 1 Remediation; and
    b. all conditions to the extent that they relate to works required to be carried out that are in addition to the Stage 1 Remediation specifications contained in Table 3 of Schedule 3,

but excluding any conditions which are the responsibility of the Contractor under paragraph 1 of this Schedule 19.

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1. Interpretation

1.1 Definitions

The following words have the meanings given to them in this Schedule unless the contrary intention appears:

Australian Drinking Water Guidelines means the publication of the same name by the National Health and Medical Research Council and Natural Resource Management Ministerial Council (2011).

Australian Guidelines for Water Recycling means:

(a) the Australian Guidelines for Water Recycling: Managing Health and Environmental Protection Heritage Council, Natural Resource Management Ministerial Council and Australian Health Ministers Conference (2005); and

(b) Australian Guidelines for Water Recycling: Stormwater Harvesting and Reuse Phase 2 by the Environment Protection and Heritage Council, Natural Resource Management Ministerial Council and Australian Health Ministers Conference (2009).

BAU Works means the works, infrastructure and services that the Contractor may (at the Contractor's election) construct and install in a Building (other than the Contribution GI Works) in accordance with all relevant Approvals that provides for waste disposal, water supply, domestic hot water, heating and cooling systems in the Building without the Delivery and Connection of the Green Infrastructure.

Best Industry Practice means the exercise of that degree of professional skill, diligence, and prudence that reasonably would be expected from competent persons performing tasks and functions similar in nature to the Green Infrastructure Works and consistent with the Law.

Connection Commencement Date has the meaning given to that term in respect of Green Infrastructure in clause 7.

Connection Completion Date has the meaning given to that term in respect of Green Infrastructure nominated in clause 7.

Consequential Loss means any loss of profit, loss of revenue, loss of business opportunity or goodwill, loss of any contract or any indirect loss.

Contractor's First Notice, in respect of a Building, has the meaning given to that term in clause 5.1.

Contractor's Second Notice, in respect of a Building, has the meaning given to that term in clause 5.3.

Council Construction Period and **Council Construction Periods** means, in respect of a Building, the whole of the period during which it is intended that Council will construct, Deliver and Connect the relevant Green Infrastructure which:

(a) for Delivery, commences on the Delivery Commencement Date and ends on the Delivery Completion Date specified in this Schedule for that Green Infrastructure; and

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(b) for Connection, commences on the Connection Commencement Date and ends on the Commencement Completion Date specified in this Schedule for that Green Infrastructure.

DA Design means the detailed design for a Building (and not merely conceptual design or design studies) that will be submitted to the relevant Consent Authority as part of a Development Application for approval to construct and use that Building.

DA Expiry Date has the meaning given to this term in clause 5.5(a)(iii).

Delivery Commencement Date has the meaning given to that term in respect of Green Infrastructure in clause 7.

Delivery Completion Date has the meaning given to that term in respect of Green Infrastructure in clause 7.

Design Reports and Plans means, in respect of each Building, those reports and plans identifying the Contribution GI Works that have been, or will be, constructed.

Expected Completion Date means, in respect of a Building the date nominated by the Contractor in the Development Program provided by the Contractor to Council from time to time in accordance with the notice requirements of this Deed as the date by which the Contractor reasonably believes will be the Completion Date for that Building.

Green Infrastructure Delivery and Connection Arrangements means the arrangements for the Delivery and Connection of Green Infrastructure and Green Infrastructure Works contained in Annexure A to this Schedule, as amended from time to time in accordance with this Schedule.

Green Infrastructure Works means the works to be undertaken by Council and Council's contractors to construct the Green Infrastructure on the Site and Deliver and Connect the Green Infrastructure in accordance with this Schedule.

Liability in relation to a person, means any liability or obligation however it arises and whether it is present or future, fixed or unascertained, actual or contingent.

Loss includes any direct loss, damage, Liability, compensation, fine, penalty, charge, payment, cost or expense (including any legal cost and expense on a full indemnity basis) however it arises and whether it is present or future, fixed or unascertained, actual or contingent.

Site means the area within the Land on which the Green Infrastructure is to be constructed, Delivered and Connected in accordance with this Schedule.

2. Not used

3. Contract Term

3.1 Not used

3.2 Staged termination

(a) This Schedule ceases to have effect with respect to each Building in a staged manner on the Completion Date for that Building.

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(b) Notwithstanding paragraph (a), neither Party is released, relieved or discharged from:

(i) liability under this Deed in connection with a Building that arose before the Completion Date for that Building; or

(ii) any breach of any provision of this Deed by a Party occurring before the Completion Date for that Building (to the extent that it is not remedied by the Completion Date).

4. Parties' obligations and acknowledgement

4.1 Council's primary obligations

(a) Council will use its reasonable endeavours to enter into arrangements with a contractor for the construction of the Non-Potable Recycled Water Network.

(b) Provided Council has entered into an arrangement with a contractor for the construction of Green Infrastructure in accordance with paragraph (a), Council must (at Council's Cost) use Council's reasonable endeavours to Deliver and Connect the Green Infrastructure relevant to a Building within the relevant Council Construction Periods:

(i) in a proper and workmanlike manner;

(ii) using good quality materials, which must be suitable for the purpose for which they are required under this Schedule;

(iii) so that it is consistent with the Design Reports and Plans for the Contribution GI Works provided by the Contractor; and

(iv) in accordance with:

A. all Laws and any Approvals (including the Development Consent for the Building);

B. the Green Infrastructure Delivery and Connection Arrangements;

C. the Contractor's design for the Building and the Contribution GI Works;

D. without the use of asbestos;

E. Best Industry Practice;

F. relevant standards determined by Australian Standards Limited, the Building Code of Australia and any relevant manufacturers' standards; and

G. any other requirements of this Deed.

4.2 Contractor's and Land Owner's primary obligations

(a) Subject to clause 5.4, the Contractor must provide the Contribution GI Works in accordance with this Deed, including this Schedule, regardless of whether or not Council Delivers and Connects the Green Infrastructure.

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(b) The Contractor and the Land Owner must grant Council and its contractors access to that part of the Land reasonably required by Council to fulfil Council's obligations under this Deed in accordance with clause 9 of this Schedule.

4.3 Acknowledgements

The parties acknowledge that:

(a) the Contribution GI Works are to be carried out by the Contractor in accordance with this Deed, including the GI Connection Specification, irrespective of whether or not Council Delivers and Connects the Green Infrastructure (subject to clause 5.4);

(b) the Contractor may (but is not obliged to) install and commission the BAU Works in a Building in addition to the Contribution GI Works;

(c) subject to Council Delivering and Connecting the Green Infrastructure for a Building within the relevant Council Construction Periods, the Contractor and Land Owner must facilitate the connection of the Green Infrastructure by Council; and

(d) nothing in this Deed requires the Contractor or the Land Owner to proceed with construction of a Building or connect to the Green Infrastructure.

4.4 Communication

Notwithstanding the notification provisions of this Deed, in respect of each Building:

(a) the Contractor must keep Council reasonably informed of:

(i) the progress of the Contribution GI Works;

(ii) the Expected Completion Date;

(iii) the anticipated date of Practical Completion of the Contribution GI Works in respect of each Building; and

(iv) the relevant Delivery Commencement Dates, Delivery Completion Dates, Connection Commencement Dates and Connection Completion Dates; and

(b) Council must keep the Contractor reasonably informed of the progress of the construction of Green Infrastructure, including the anticipated date for the construction, Delivery and Connection of that Green Infrastructure to each Building.

4.5 Development Consent

(a) The parties acknowledge that notwithstanding the Contractor's obligation to provide the Contribution GI Works under clause 4.2(a) the Contractor may also include in the Development Application for each Building a request for approval for the design, construction and commissioning of the BAU Works in addition to the Green Infrastructure.

(b) The Contractor must advise Council whether the Development Consent allows for the use of:

(i) both the BAU Works and the Green Infrastructure;

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(ii) only the BAU Works; or

(iii) only the Green Infrastructure,

in the Contractor's Second Notice.

(c) Without limiting the obligations of the Contractor under clause 4.2(a) or the rights of the Contractor under clause 4.3(d):

(i) if the Development Consent allows for the use of both the BAU Works and the Green Infrastructure so that an Occupation Certificate can be obtained for the Building whether or not the Green Infrastructure is Delivered and Connected, the Contractor may design and construct the Building to provide for the BAU Works in addition to the Contribution GI Works subject to the requirements of the Development Consent, and this Deed;

(ii) if the Development Consent does not allow for the use of both the BAU Works and the Green Infrastructure so that an Occupation Certificate can be obtained for the Building only if the BAU Works are constructed and Delivery and Connection of the Green Infrastructure is not permitted, then Council cannot access the Land (including the Site and Building) for the purposes of Delivering and Connecting the Green Infrastructure to the Building prior to the Completion Date; and

(iii) if the Development Consent allows only for the use of the Green Infrastructure and not the BAU Works so that an Occupation Certificate can only be obtained for the Building if the Green Infrastructure is Delivered and Connected and the BAU Works are not permitted, then the Contractor may in accordance with its rights under clause 4.3(d) elect in the Contractor's Second Notice whether or not to proceed with construction of the Building in accordance with that Development Consent.

5. Contractor and Council Green Infrastructure notification provisions

5.1 Contractor's First Notice

For each Building, the Contractor must give a notice to Council (**Contractor's First Notice**) upon the Contractor commencing the DA Design for that Building, which notice:

(a) advises the following:

(i) the Contractor's expected construction program for the Building, including the following anticipated dates as they are programmed in the Contractor's expected construction program as at the date of the Contractor's First Notice:

A. the Expected Completion Date;

B. the date of Practical Completion of the Contribution GI Works in respect of each Building; and

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C. the relevant Delivery Commencement Dates, Delivery Completion Dates, Connection Commencement Dates and Connection Completion Dates;

(ii) the Contractor's expected Development Program for the remaining Buildings (to the extent this information is available to the Contractor as at the date of the Contractor's First Notice);

(iii) the proposed estimate of the number of dwellings in the Building;

(iv) the proposed estimate of the height of the Building; and

(v) the expected lodgement date of the Development Application for the Building; and

(b) may request other information that the Contractor reasonably requires of Council for the Contractor to progress the Contractor's DA Design.

5.2 Not used

5.3 Contractor's Second Notice

Following issue of a Development Consent for each Building and on or prior to a Construction Certificate being issued for that Building, the Contractor must give to Council a notice (**Contractor's Second Notice**) which notice advises:

(a) if the Building is proceeding to construction;

(b) any variations to the information provided in the Contractor's First Notice pursuant to clauses 5.1(a) and 5.1(a)(ii);

(c) whether the Development Consent allows for:

(i) the use of both the BAU Works and the Green Infrastructure so that an Occupation Certificate can be obtained for the Building whether or not the Green Infrastructure is Delivered and Connected;

(ii) the use only of the BAU Works so that an Occupation Certificate can be obtained for the Building only if the BAU Works are constructed and without the Delivery and Connection of the Green Infrastructure; or

(iii) the use only of the Green Infrastructure so that an Occupation Certificate can be obtained for the Building only if Green Infrastructure is Delivered and Connected and the BAU Works are not permitted; and

(d) all Design Reports and Plans for the Contribution GI Works in the possession of the Contractor at the date of the Contractor's Second Notice.

5.4 Council's Green Infrastructure Notice

(a) As soon as reasonably practicable after Council determines that the Non-Potable Recycled Water Network will never be Delivered to a Building in the Development (**Determination**), Council must give a Notice to the Contractor and the Land Owner advising that it does not intend to ever Deliver and Connect the Non-Potable Water Network to the nominated Building in the Development (**Green Infrastructure Notice**).

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(b) If Council gives a Green Infrastructure Notice to the Contractor and the Land Owner then, subject to clauses 5.4(c) and 5.5, the Contractor and the Land Owner will be relieved of their obligations under this Deed to provide that corresponding part of the Contribution GI Works relating to the Non-Potable Recycled Water Network for the Building specified in the Green Infrastructure Notice.

(c) Council may give a Green Infrastructure Notice at any time, but in any event, as soon as reasonably practicable after it has made a Determination.

(d) Nothing in this clause 5.4 relieves the Contractor of its obligations to provide the part of the Contribution GI Works relating to the space cooling system and air conditioning refrigerant in accordance with and this Deed.

5.5 Council Withdrawal Notice

(a) If :

(i) Council gives the Contractor and the Land Owner a Green Infrastructure Notice; and

(ii) the Development Application for the Building specified in the relevant Green Infrastructure Notice or Contractor's First Notice (as the case may be) has not been lodged more than 18 months after the date of the Green Infrastructure Notice (**DA Expiry Date**),

then, Council may (in its absolute discretion) withdraw the Green Infrastructure Notice by giving the Contractor Notice (**Council Withdrawal Notice**) at any time up to the actual date of lodgement of the relevant Development Application for the Building specified in the Green Infrastructure Notice or Contractor's First Notice (as the case may be) in which case:

(iii) if a Green Infrastructure Notice for the Building has been issued, the Green Infrastructure Notice will cease to have any effect; and

(iv) notwithstanding clause 5.4(b), the Contractor and the Land Owner will not be relieved of their obligations under this Deed to provide that part of the Contribution GI Works relating to the Non-Potable Recycled Water Network for the Building specified in the Green Infrastructure Notice or Contractor's First Notice (as the case may be).

(b) The Contractor and the Land Owner acknowledge and agree that Council will not be liable to the Contractor or the Land Owner for any loss or damage suffered by the Contractor or the Land Owner as a result of the Council giving the Contractor and the Land Owner a Council Withdrawal Notice under clause 5.5(a).

(c) If on the date 60 days after the DA Expiry Date:

(i) the Contractor has not lodged the Development Application for the Building specified in the relevant Green Infrastructure Notice or Contractor's First Notice (as the case may be); and

(ii) Council has not given the Contractor a Council Withdrawal Notice,

then the Contractor must (at a time determined by the Contractor in the Contractor's absolute discretion) give Council another Contractor's First Notice for that Building and clauses5.3, 5.4 and 5.5 apply again in respect of that Contractor's First Notice.

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6. Contractor Green Infrastructure notification provisions

6.1 Not used

6.2 Non-Potable Recycled Water Network

(a) Prior to the issue of the Construction Certificate for a Building, and not less than 90 days prior to the relevant Delivery Commencement Date, the Contractor must give a Notice to Council advising:

(iii) **(Non-Potable Recycled Water Room)** - the approximate size of the space in the Building that will contain part of the Non-Potable Recycled Water Network that may be Delivered and Connected by Council;

(iv) **(Flow Quality)** – the Contractor's requirements for flow in the Non-Potable Recycled Water Network for the approval of Council (not to be unreasonably withheld); and

(v) **(Easement Sites)** - the approximate easement sites for the easements required to be created by the Contractor for the Non-Potable Recycled Water Network under Table 4 of the Contributions Schedule.

(b) The Contractor must provide Council with the Design Reports and Plans for the Contribution GI Works associated with the Non-Potable Recycled Water Network no less than 90 days prior to the relevant Delivery Commencement Date.

(c) The specifications for the Non-Potable Recycled Water Room, the Non-Potable Recycled Water Network and the easements sites contained in the notice in clause 6.2(a) must be in accordance with the specifications for those items contained in the GI Connections Specifications and must not be inconsistent with the arrangements in the Green Infrastructure Delivery and Connection Arrangements.

7. Delivery and Connection of Green Infrastructure

7.1 Not used

7.2 Non-Potable Recycled Water Network

(a) Council may only:

(i) Deliver the Non-Potable Recycled Water Network during the period commencing on the Delivery Commencement Date and ending on the Delivery Completion Date in the table in clause 7.2(e) below; and

(ii) Connect the Non -Potable Recycled Water Network during the period commencing on the Connection Commencement Date and ending on the Connection Completion Date set out in clause 7.2(e) below.

(b) The Contractor must facilitate Connection of the Non-Potable Recycled Water Network to the Non-Potable Recycled Water Network during the period commencing on the Connection Commencement Date and ending on the Connection Completion Date set out in clause 7.2(e) below.

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(c) If Council fails to Deliver the Non-Potable Recycled Water Network by the Delivery Completion Date then clauses 7.7 and 11.1 will apply.

(d) If Council Delivers the Non-Potable Recycled Water Network by the Delivery Completion Date, but fails to Connect the Non-Potable Recycled Water Network by the Connection Completion Date then clauses 7.7 and 11.1 will apply.

(e) Unless otherwise agreed by the Parties, the Delivery Completion Date and Connection Completion Date for the Non-Potable Recycled Water Network are as follows:

Green Infrastructure	Delivery Commencement Date	Delivery Completion Date	Connection Commencement Date	Connection Completion Date
Non-Potable Recycled Water Network	The later of: (a) the date the Contractor gives Notice to Council of the completion of construction of the car park structure; and (b) 7 months prior to the Expected Completion Date, but not less than 1 month prior to the Delivery Completion Date.	5 months prior to the Expected Completion Date.	Same as the Delivery Commencement Date.	Same as the Delivery Completion Date.

7.3 Not used

7.4 Not used

7.5 Not used

7.6 Not used

7.7 Failure to Deliver and Connect within the relevant Council Construction Periods

If Council has not, either:

(a) Delivered Green Infrastructure in a Building prior to the Delivery Completion Date as required under clause 7.2 ; or

(b) Connected Green Infrastructure prior to the Connection Completion Date as required under clause 7.2,

then:

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(c) Council must, on and from the Delivery Completion Date (if clause 7.7(a) applies) or on and from the Connection Completion Date (if clause 7.7(b) applies):

(i) suspend the construction, Delivery or Connection (as applicable) of that Green Infrastructure;

(ii) leave that part of the Building (including the Site) used and accessed by Council and Council's contractor for the purposes of construction, Delivery and Connection of Green Infrastructure under this Deed in a safe, clean and tidy condition; and

(iii) ensure that the Green Infrastructure and all other materials associated with the Green Infrastructure and Green Infrastructure Works are not visible external to the space provided in the Building for the Green Infrastructure; and

(d) Council cannot access the Land (including the Site and Building) prior to the Completion Date.

7.8 Indemnity

Subject to clause 14.2, Council indemnifies the Contractor and the Land Owner against any liability of the Contractor or Land Owner under the Home Building Act 1989 (NSW) for construction work undertaken on the Land to any owner or owners of the Land arising out of the Delivery and Connection of the Green Infrastructure by Council, except to the extent caused or contributed to by a negligent or wrongful act or omission of the Contractor, the Land Owner or their officers, agents, employees, licensees or contractors contributed to the liability.

8. Council Road Works

(a) Council must use its reasonable endeavours to construct and complete (except for minor defects or omissions) the Council Road Works in accordance with the Contractor's Development Program.

(b) Council acknowledges and agrees that:

(i) the Contribution Lands on which the Council Road Works are to be constructed will have been Remediated by the Contractor in accordance with this Deed, subject to the Contractor's obligations under this Deed in respect to the Contribution Lands; and

(ii) having regard to the dilapidation report in the Contractor's Remediation Statement, Council must maintain, and if removed or damaged by Council then replace, the capping installed by the Contractor.

9. Project Land

9.1 Land Owner and Contractor to grant Council access

(a) The Land Owner and Contractor grant to Council and Council's authorised representatives a non-exclusive licence, without payment of rent, licence fee or other occupation payment by the Council, to use and access that part of the Land, including the Site, that is:

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(i) owned or under the control of the Land Owner or Contractor from time to time; and

(ii) reasonably required by the Council and Council's authorised representatives for the purposes of satisfying Council's obligations under this Deed including:

A. the construction, Delivery and Connection of the Green Infrastructure; and

B. carrying out the Council Road Works.

(b) This licence immediately terminates in respect of any part of the Land which the Land Owner or Contractor no longer own or control.

(c) Council, when exercising its rights under the licence granted under this clause, must:

(i) cause as little damage as reasonably possible;

(ii) where any damage is caused, restore the Land and any improvements on the Land to their condition as at commencement of occupation by the Council and Council's contractors;

(iii) minimise disruption to the use of the Land, including use of the Land by the Land Owner, the Contractor (including the carrying out by the Contractor of the Contribution GI Works and the Development) and anyone else lawfully on the Land;

(vi) comply with the Contractor's work hours, lighting, insurance, work health and safety requirements (to the extent that these requirements do not infringe any Laws, do not have a material impact on the Development Program and are not inconsistent with any Approval (including the Development Consent) and the reasonable requirements of the Land Owner and Contractor under this Deed);

(vii) comply with all reasonable directions of the Contractor or Land Owner's site co-ordinator;

(viii) comply with all relevant Laws including the *Work Health and Safety Act* 2011 and *Work Health and Safety Regulations* 2017; and

(ix) comply with any site awards or conditions as applicable.

(d) Council indemnifies the Contractor and the Land Owner from and against damage, loss, injury and death caused by the negligence, default or unlawful acts of Council or any of Council's contractors while accessing the Land, except to the extent caused or contributed to by a negligent or wrongful act or omission of the Contractor, the Land Owner or their officers, agents, employees, licensees or contractors contributed to the liability.

(e) Any request for access by Council to the Land Owner and Contractor must be in writing and must be made at least 5 Business Days prior to access being granted to Council.

(f) Council must ensure that Council's contractors do not breach this clause 9.1.

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(g) The Land Owner and the Contractor may, acting reasonably, instruct Council to remove a contractor of Council, equipment or materials from the Land, and may exclude that contractor from the Land in the case of breach of this clause 9.1.

(h) Council acknowledges that the Land Owner and the Contractor are not responsible for supervising or co-ordinating the Green Infrastructure Works, nor has the Land Owner or Contractor undertaken any obligation or assumed any duty of care in respect of the Green Infrastructure Works.

9.2 Cooperation of the parties

Without limiting clause 9.1, the parties each agree in exercising their rights under this Deed:

(a) to cause minimal disturbance and disruption to:

(i) the Green Infrastructure Works;

(ii) the Delivery and Connection by Council of the Green Infrastructure;

(iii) the construction by Council of the Council Road Works;

(iv) the carrying out by the Contractor of the Contribution GI Works and the Development; and

(v) anyone else who is lawfully entitled to be on the Land;

(b) if:

(i) Council accesses the Land for the purpose of constructing the Green Infrastructure or Delivering and Connecting the Green Infrastructure; or

(ii) the Land Owner or the Contractor access any part of Green Square (other than the Land) for the purpose of carrying out the Contribution GI Works,

to:

(iii) cause minimal disturbance and disruption to the Contractor's and Land Owner's use of the Land or Council's use of Green Square (other than the Land) (as applicable); and

(iv) comply with the Land Owner's and Contractor's or Council's reasonable site specific and work, health and safety protocols (as applicable); and

(c) to fully cooperate with other contractors working on the Site and not interfere with the other contractors to execute their work.

9.3 Security

In respect of each Building, until the Completion Date the Contractor must provide such security measures as are reasonably necessary for the protection of the Green Infrastructure located on the Site against theft, vandalism, unauthorised entry into the Site and any other unlawful acts.

9.4 Insurance

(a) Council must:

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(i) effect and maintain, or ensure that its contractors effect and maintain, in connection with the Green Infrastructure Works, contract works insurance, public liability insurance and workers compensation insurance as required by Law; and

(ii) provide to the Land Owner and Contractor, upon request, certificates of currency in respect of those insurances.

To the extent that Council's contractors are not covered by the insurances of Council, Council must procure that Council's contractors comply with clause 9.4(a).

9.5 Easements

The parties acknowledge that:

(a) this Deed requires the Contractor to procure the grant to Council of easements over the Site for the purpose of constructing, Delivering and Connecting, operating and maintaining the Green Infrastructure; and

(b) if Council does not procure the construction of, or Deliver and Connect, the Green Infrastructure during the term of the licence granted under clause 9.1, Council may, subject to the terms of the easements, gain access to the Site pursuant to the easement in order to do so.

10. Work health and safety

10.1 Protection of persons and property

Council must:

(a) Deliver and Connect the Green Infrastructure; and

(b) ensure that its contractors construct, Deliver and Connect the Green Infrastructure on the Site,

safely and so as to avoid injury to persons and damage to property.

10.2 Work health and safety

(a) In this clause:

(i) "**WHS Legislation**" means legislation relating to health and safety at work including the *Work Health and Safety Act* 2011 (NSW) and the *Work Health and Safety Regulations* 2017 (NSW); and

(ii) the terms "**construction project**" and "**principal contractor**" have the same meanings assigned to those terms under the WHS Legislation.

(b) The parties acknowledge that:

(i) the Green Infrastructure Works and the Contribution GI Works constitute separate and distinct construction projects;

(ii) to the extent the Green Infrastructure Works is a construction project, Council is the principal contractor for the Green Infrastructure Works unless it engages another person or entity as Principal Contractor; and

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(iii) to the extent the Contribution GI Works is a construction project, the Contractor is the principal contractor for the Contribution GI Works unless it engages another person or entity as Principal Contractor.

11. Completion Date

11.1 Arrangements for Green Infrastructure

(a) If Council:

(i) is obliged to use its reasonable endeavours to Deliver and Connect any part of the Green Infrastructure under clause 4.1(b) and either:

A. Council fails to Deliver the Green Infrastructure by the relevant Delivery Completion Dates;

B. Council Delivers the Green Infrastructure by the relevant Delivery Completion Dates, but fails to Connect the Green Infrastructure by the relevant Connection Completion Dates; or

then the parties acknowledge that the owner or owners of the relevant Building or any part of the Building may, at its own Cost, utilise the town water (potable) through the pipes comprising the Non-Potable Recycled Water Network constructed by the Contractor in the Building.

11.2 After strata plan registration

The Council acknowledges and agrees that, following registration of the strata plan for a Building, the Land Owner will no longer be the registered proprietor of that part of the Land and, as a result:

(a) Council, the Land Owner and the Contractor cannot require the Owners Corporation to connect to the Green Infrastructure; and

(b) from the date of registration of the strata plan for each Building, Council can liaise with the Owners Corporation in respect of:

(i) if the Green Infrastructure has not already been Delivered and Connected prior to registration of the strata plan, the Delivery and Connection of the Green Infrastructure to the Building; and

(ii) the ongoing operation and maintenance of the Green Infrastructure.

12. Not used

13. Not used

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14. Limitation of liability

14.1 Not used

14.2 No warranty or liability

For the avoidance of doubt, the parties agree and acknowledge that:

(a) Council may never:

(i) enter into an arrangement with a contractor for the construction of the Green Infrastructure; or

(ii) Deliver and Connect the Green Infrastructure during the relevant Council Construction Periods;

(b) Council will not be liable to the Contractor or the Land Owner for any loss or damage suffered by the Contractor or the Land Owner as a result of Council failing to:

(i) enter into an arrangement with a contractor for the construction of the Green Infrastructure; or

(ii) Deliver and Connect the Green Infrastructure during the relevant Council Construction Periods; and

(c) the limitations in this clause 14.2 do not limit any liability of Council under clause 9.1(d); and

(d) Council does not make any representations or warranties regarding the provision of electricity to the Land.

15. Not used

16. Not used

17. Not used

18. Land Owner's additional obligations under this Deed

In the event that either:

(a) the Contractor's rights to develop the Land pursuant to the legal arrangements it has with the Land Owner as at the date of this Deed are terminated; or

(b) the Land Owner becomes solely liable to perform the rights and obligations of both the Land Owner and Contractor under this Deed,

then on and from the date of such termination or the date the Land Owner becomes solely liable to perform the rights and obligations of both the Land Owner and Contractor under this

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Deed, the Land Owner agrees to perform all the Contractor's obligations under this Schedule in accordance with this Deed as if it were the Contractor for the purposes of this Deed, until such time as alternative arrangements are agreed (and legally documented) between the Council and the Land Owner in respect of a new contractor potentially performing some or all of those obligations.

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Annexure A - Green Infrastructure Delivery and Connection Arrangements

1. Non-Potable Recycled Water Network

1	Deliver a pipe from the pipe network for non-potable recycled water in the street to the Non Potable Water Connection Point located in the Non-Potable Recycled Water Room.
2	Deliver pipes, metering equipment and isolation valves for Non-Potable Recycled Water in the Non-Potable Recycled Water Room and size the infrastructure to meet the connection point specified by the Contractor within the Non-Potable Recycled Water Room. and size the infrastructure to meet the Building's Non-Potable Recycled Water flow rate requirements specified by the Contractor, and as agreed by Council in the Contractor's Notice under clause 6.2(a) of this Deed.
3	If the potable water system has been connected to the Non-Potable Recycled Water Network in the Building carry out such work as are required to: a) disconnect that potable town water system from the Non-Potable Recycled Water Network in the Building; and b) Connect the non-potable recycled water system to the Non-Potable Recycled Water Network in the Building.
4	The non-potable recycled water supply in the Non-Potable Recycled Water Network is to have a pressure of a minimum of 15 m head at the property boundary
5	The non-potable recycled water supply in the Non-Potable Recycled Water Network is to have a quality that will comply with the Australian Guidelines for Water Recycling for use in toilets, washing machine taps, car wash bays, cooling towers and irrigation usage. The level of total dissolved solids shall be in accordance with the Australian Guidelines for Water Recycling and be less than 300ppm 95% of the time.
6	Council will offer the Contractor or the Building owner (which may be an Owners Corporation) (as the case may be) a contract for the delivery of non-potable recycled water. In the case of the Contractor, the contract for delivery of Non-Potable Recycled Water for each Building must expire on the Completion Date for that Building and must include rates no greater than the rates offered by Sydney Water for potable town water as at the date of Council's offer.

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Executed as a deed.

Executed by **The Council of the City of Sydney ABN 22 636 550 790** by ~~or in the presence of~~: AN AUTHORISED DELEGATE IN ACCORDANCE WITH SECTION 377 OF THE LOCAL GOVERNMENT ACT 1993 (NSW)

Signature of ~~director~~ WITNESS

Name of ~~director~~ in full
WITNESS
456 KENT STREET, SYDNEY

Signature of ~~secretary/other director~~
AUTHORISED DELEGATE

Name of ~~secretary/other director~~ in full
AUTHORISED DELEGATE

Executed by **Mirvac Green Square Pty Ltd ACN 131 815 079** in accordance with section 127 of the Corporations Act 2001 (Cth):

Signature of director

Shanna Lyn Souter

Full name of director

Signature of company secretary/~~director~~

Michelle Favelle

Full name of company secretary/~~director~~

Signed for and on behalf of **Landcom ABN 79 268 260 688** by its authorised signatory in the presence of:

See next page

Signature of witness

Full name of witness

Signature of authorised signatory

Full name of authorised signatory

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Signed, sealed and delivered for and on behalf of Landcom by its attorneys jointly under power of attorney Book 4794 No 700 dated 28 January 2022. By signing this document, each attorney certifies that they have no notice of revocation of such powers and authorities.

Signed in the presence of:

Signature of witness	Signature of attorney
Sylvia Kuzmiczenko Name of witness	Robert Yu Name of attorney
14/60 Station St E, Parramatta NSW 2150 Address of witness	Director, Legal Position of attorney

Signed in the presence of:

Signature of witness	Signature of attorney
Sylvia Kuzmiczenko Name of witness	Chris Clark Name of attorney
14/60 Station St E, Parramatta NSW 2150 Address of witness	Senior Solicitor Position of attorney

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Explanatory Note

Draft Planning Agreement

Under s7.4 of the *Environmental Planning and Assessment Act 1979*

Parties

The Council of the City of Sydney ABN 79 268 260 688 of 456 Kent Street Sydney NSW (**Council**)

Landcom ABN 79 268 260 688 of Level 14, 60 Station Street Parramatta, NSW 2150 (**Land Owner**)

Mirvac Green Square Pty Ltd ABN 131 815 079 of Level 26, 60 Margaret Street Sydney NSW (**Contractor**)

Description of the Land to which the Draft Planning Agreement Applies

Land means the part of Lot 1 in DP1199427 (being folio identifier 1/1199427) generally shown as '11' in the Stages 4 and 5 Land Plan in this Draft Planning Agreement, and any lot created by Subdivision of that land.

Description of Proposed Development

Development means the development and use of the Land as permitted by the LEP, including but not limited to subdivision, low, medium and high density residential housing, commercial development, retail development, car parking, roads, utilities, associated services and open space.

Summary of Objectives, Nature and Effect of the Draft Planning Agreement

Objectives of Draft Planning Agreement

The objective of the Draft Planning Agreement is to provide infrastructure, facilities and services to meet the Development, monetary contributions and dedication of land.

Nature of Draft Planning Agreement

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The Draft Planning Agreement is a planning agreement under s7.4 of the *Environmental Planning and Assessment Act 1979 (Act)*. The Draft Planning Agreement is a voluntary agreement under which development contributions are made by the Contractor for various public purposes (as defined in s7.4(2) of the Act).

Effect of the Draft Planning Agreement

The Draft Planning Agreement:

- relates to the carrying out by the Contractor of the Development,
- excludes the application of s7.11 and s7.12 of the Act to the Development,
- does not exclude the application of s7.24 of the Act to the Development,
- requires payment of monetary contributions, dedication of land and carrying out of works.
- is to be registered on the title to the Land,
- imposes restrictions on the Contractor transferring the Land or part of the Land or assigning an interest under the agreement,
- provides a dispute resolution method for a dispute under the agreement,
- provides that the agreement is governed by the law of New South Wales, and
- provides that the *A New Tax System (Goods and Services Tax) Act 1999* (Cth) applies to the agreement.

Assessment of the Merits of the Draft Planning Agreement

The Planning Purposes Served by the Draft Planning Agreement

The Draft Planning Agreement:

- promotes and co-ordinates of the orderly and economic use and development of the Land to which the agreement applies,
- provides land for public purposes in connection with the Development,
- provides and co-ordinates community services and facilities in connection with the Development,
- promotes ecologically sustainable development, and
- provides increased opportunity for public involvement and participation in environmental planning and assessment of the Development.

How the Draft Planning Agreement Promotes the Public Interest

The Draft Planning Agreement promotes the public interest by promoting the objects of the Act as set out in s1.3(a), (c) and (i) of the Act.

For Planning Authorities:

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How the Draft Planning Agreement Promotes the guiding principles for councils in section 8A of the Local Government Act 1993 (previously the Elements of the Council's Charter)

The Draft Planning Agreement promotes the elements of the guiding principles for councils by:

- providing services and facilities for the community,
- ensuring the public facilities provided by the Developer under the agreement are transferred to and managed by the Council or are otherwise subject to the Council's control,
- ensuring the Land is developed in a manner that is consistent with and promotes the principles of ecologically sustainable development,
- providing a means that allows the wider community to make submissions to the Council in relation to the agreement.

Whether the Draft Planning Agreement Conforms with the Authority's Capital Works Program

Yes. The Planning Agreement confirms with the Council's capital works program.

Whether the Draft Planning Agreement specifies that certain requirements must be complied with before issuing a construction certificate, subdivision certificate or occupation certificate

Yes, the draft Planning Agreement requires certain development contributions to be provided before the issuing of Part 6 Certificates.

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NSW Land Registry Services
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GPO Box 15, Sydney NSW 2001
P (02) 8776 3575
E eConveyancingNSW@nswlrs.com.au
www.nswlrs.com.au

Lodgment Rules Exception Form

This form must be lodged with every Dealing with Exception and Miscellaneous Dealing (Miscellaneous Document) form, as defined in the Lodgment Rules.

Please accept this scanned paper dealing, as an eligible exception under Rules 5 or 10 of the Lodgment Rules (version 2), that has been lodged as either a:

1. Dealing with Exception form; or
2. Miscellaneous Dealing (Miscellaneous Document) form

Lodgment Rules exception number: * 46

**Insert, from the Lodgment Rules exceptions list, the exception number relied on to use the Dealing with Exception form or Miscellaneous Dealing (Miscellaneous Document) form.*

The Lodgment Rules exception list is published on the Office of the Registrar General Lodgment Rules webpage:
https://www.registrargeneral.nsw.gov.au/publications/lodgment-rules

Appendix D Material Characterisation Form and Material Tracking Sheet

Appendix D - Material Import Tracking Summary

									Imported Material																						
									Location #1: **Source Name:** **Address:** **Classification (VENM/ENM/Recycled):** **Material Classification Doc Ref:**								**Location #2:** **Source Name:** **Address:** **Classification (VENM/ENM/Recycled):** **Material Classification Doc Ref:**								**Location #3:** **Source Name:** **Address:** **Classification (VENM/ENM/Recycled):** **Material Classification Doc Ref:**							
Cartage Days	**Date**	**Day**	No. of Loads (T&D)	No. of Loads 10 Wheel	No. of Loads (Bogie)	Number of Loads Tipper 4 Tonne	**Bulk (m3) Cumulative**	**Tonnes (t) Cumulative**	Number of Loads Truck and Trailer	Number of Loads 10 Wheel	Number of Loads Bogie	Volume m3	Tonnage	Visual Inspection Completed on Arrival and Approved (Y/N)?	Material Placement Location	Number of Loads Truck and Trailer	Number of Loads 10 Wheel	Number of Loads Bogie	Volume m3	Tonnage	Visual Inspection Completed on Arrival and Approved (Y/N)?	Material Placement Location	Number of Loads Truck and Trailer	Number of Loads 10 Wheel	Number of Loads Bogie	Volume m3	Tonnage	Visual Inspection Completed on Arrival and Approved (Y/N)?	Material Placement Location
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Appendix D - Material Export Tracking Summary

									Waste Disposal																				
									Location #1: **Facility Name:** **Address:** **EPL:** **Material Source ID/Stockpile Ref:** **Waste Classification Reference:**								**Location #1:** **Facility Name:** **Address:** **EPL:** **Material Source ID/Stockpile Ref:** **Waste Classification Reference:**								**Location #1:** **Facility Name:** **Address:** **EPL:** **Material Source ID/Stockpile Ref:** **Waste Classification Reference:**							
Cartage Days	**Date**	**Day**	No. of Loads (T&D)	No. of Loads 10 Wheel	No. of Loads (Bogie)	Number of Loads Tipper 4 Tonne	**Bulk (m3) Cumulative**	**Tonnes (t) Cumulative**	Number of Loads Truck and Trailer	Number of Loads 10 Wheel	Number of Loads Bogie	Volume m3	Tonnage	Wastelocate no./or Consignment Number	Landfill Docket No.	Number of Loads Truck and Trailer	Number of Loads 10 Wheel	Number of Loads Bogie	Volume m3	Tonnage	Wastelocate no./or Consignment Number	Docket No. (if relevant)	Number of Loads Truck and Trailer	Number of Loads 10 Wheel	Number of Loads Bogie	Volume m3	Tonnage	Wastelocate no./or Consignment Number	Docket No. (if relevant)
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Appendix D - Material Export Tracking Summary

									VENM Removal														
									Location #1: **Receiver Name:** **Address:** **Material Source ID/Stockpile Ref:**					**Location #2:** **Receiver Name:** **Address:** **Material Source ID/Stockpile Ref:**					**Location #3:** **Receiver Name:** **Address:** **Material Source ID/Stockpile Ref:**				
Cartage Days	**Date**	**Day**	No. of Loads (T&D)	No. of Loads 10 Wheel	No. of Loads (Bogie)	Number of Loads Tipper 4 Tonne	**Bulk (m3) Cumulative**	**Tonnes (t) Cumulative**	Number of Loads Truck and Trailer	Number of Loads 10 Wheel	Number of Loads Bogie	Volume m3	Tonnage	Number of Loads Truck and Trailer	Number of Loads 10 Wheel	Number of Loads Bogie	Volume m3	Tonnage 2.0	Number of Loads Truck and Trailer	Number of Loads 10 Wheel	Number of Loads Bogie	Volume m3	Tonnage 2.0
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Material Characterisation Form (example)

MCF Reference #_____

Item	Detail
Completed by:	
Date	
Material Identification (Stockpile name and grid reference, importation source name and unique identification name etc.)	
Source location (Stockpile name and grid reference, source location and grid reference, off-site source address and description of source site residential, quarry etc.)	On site □ - Details: Off site (Source Site) □ - Details:
Material characterisation:	
Volume of material	
Material description (material type, colour, inclusions, etc.)	
Is the material free of ACM, staining and malodourous soils	
If the assessment is of material from an off-site Source, is the material suitable for importation to the site?	
If assessment is for off-site disposal of material, what is the final waste classification / reuse exemption conclusion?	
If the assessment is for reuse of the material at the site, is the material suitable for reuse	
Other comments:	

Material Tracking Sheet Part A (example)

Material Tracking Sheet, Reference #:_____							
Day:		Completed by:		MCF Reference		Source Location	
Date:		Contractor:		Material Type:			
Comment:							

Truck Details			Load Times										Total Loads	Total Bins	End Placement Location
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