

25th November 2024

Marko Neskoski

Besix Watpac

16 Kensington Street
Kogarah NSW 2217

Dear Marko

Review of Environmental Factors (REF) for the St George Hospital- Refurbishment: Environmental Contamination Status

1 Introduction

This Review of Environmental Factors (REF) – Environmental Contamination Status has been prepared by Prensa Pty Ltd (Prensa) on behalf of the Health Infrastructure NSW (the Applicant) to assess to potential environmental impacts that could arise from the refurbishment works at St George Hospital at 16 Kensington Street, Kogarah (the site).

This report has been prepared to assist Watpac in fulfilling the requirements for the Environmental Contamination Status component of the REF by summarising any actions required to be completed when the Site is unoccupied and prior to demolition, including advice of any further Site investigations necessary prior to ground disturbance.

The report accompanies a *Review of Environmental Factors* that seeks approval for the refurbishment of the existing St George Hospital, which involves the following works.

- Internal refurbishment works within existing hospital buildings:
 - Burt Nielson Wing Level 1 – Fluoroscopy
 - Burt Nielson Wing Level 2 – Paediatrics and CYF
 - Clinical Services Building & Services Block Ground Floor – Back of House
 - Ward Block Level 2 – Multi faith, Patient Transit and AAU
 - Tower Ward Block Level 4 – Renal
 - Tower Ward Block Level 6 – Surgical
 - Prichard Wing Various Levels – Sexual Health, Antenatal and Gynaecology
 - Acute Services Building Level 7 – Palliative Care
- Minor extension for a new Clinical Waste Building within the hospital and new covered walkways

- Services upgrades/ modification works & new services installations including but not limited to lighting, hydraulics, mechanical, fire, storm water and drainage
- Demolition of existing buildings within the hospital and wider precinct
- Civil & Landscaping works adjacent to Belgrave Street for continuation of the Ambulatory Care main entry forecourt area

For a detailed project description, refer to the Review of Environmental Factors prepared by Ethos Urban.

1.1 Site Description

The St George Hospital is located on Kensington Street, Kogarah, within the Georges River Council Local Government Area (LGA) on Bidjigal Country. The hospital site is approximately 12 kilometres south of the Sydney CBD and has an area of approximately 5.16 hectares.

The hospital is located in a cluster of health and education uses within the Kogarah town centre. It comprises a number of buildings associated with the hospital campus situated around an internal road network.

St George Hospital is within proximity of transport services and key road links, including Kogarah Railway Station approximately 350 meters to the north of the site and Princess Highway to the east of the site. An aerial image of the site is shown at **Figure 1**.



Figure 1 – Site Aerial

Source: Nearmap, edits by Ethos Urban

1.2 Statement of Significance

Based on the identification of potential issues, and an assessment of the nature and extent of the impacts of the proposed development, it is deemed that:

- The extent and nature of potential impacts are low and will not have significant adverse effects on the locality, community and the environment;

- Potential impacts can be appropriately managed to ensure that there is minimal effect of the locality, community.

1.3 REF Reporting Requirements

The REF Reporting Requirements have been outlined below in **Table 1**

Table 1: REF Reporting Requirement	
REF Reporting Requirement	Location in Report
6.2.14 Hazardous Materials and Contamination	<ul style="list-style-type: none"> • 133748S St George Hospital REF – Environmental Contamination Status.

2 Scope of Works

The scope of works to assist Watpac in fulfilling the requirements for the Environmental Contamination Status component of the REF include:

- Review the provided report Detailed Site Investigation St George Hospital Stage 3 Redevelopment Gray Street, Kogarah NSW 5 September 2022 60571/145438 (Rev 2)) for the identification of data gaps within the area of additional works;
- This letter summarising the existing data gaps and providing recommendations relating to additional investigations and/or management of contamination at the Site.

2.1 Assessment Boundaries

The review of the Environmental Contamination Status is limited to the north eastern portion of the Site, in the vicinity of the proposed additional works as shown in the **Figure 1** attached to this proposal.

3 Data Review

3.1 Summary of Previous Report

A Detailed Site Investigation (DSI) was conducted in June 2021 within the northern portion of the St George Hospital, Kogarah, NSW (the Site). The DSI assessed potential contamination associated with the Site's historical use as a healthcare facility. The desktop historical review conducted as part of the DSI identified six areas of environmental concern (AECs) including:

- Imported and/or reworked fill materials used to create site levels;
- Inappropriate demolition of former site structures;
- Silver recovery systems within the radiology building;
- Application of pesticides for maintenance of vegetated areas;
- Natural materials impacted as a result of migration of contaminants on overlying fill material; and
- Potential off-site hydrogeologically up gradient sources of contamination (diesel UST and Kogarah Fire Station).

The intrusive investigation involved the advancement of 11 boreholes across the site (BH01 – BH11). Soil samples collected were analysed for Contaminants of Potential Concern (CoPCs) including heavy metals, hydrocarbons, pesticides, PFAS and asbestos. Three boreholes (BH01, BH06 and BH09) were converted into groundwater monitoring wells for the collection groundwater samples. Groundwater samples were analysed for CoPCs including heavy metals, hydrocarbons and PFAS.

Analytical results did not identify significant contamination exceeding health and environmental based assessment criteria for the current and proposed land use. Minor concentrations of heavy metals and PFAS were detected in groundwater. No remediation was recommended, but precautionary sampling beneath building footprints post-demolition was advised, alongside standard protocols for managing unexpected contamination during site development. Overall, the site was deemed suitable for its proposed redevelopment, with no unacceptable risks identified for future users.

The Detailed Site Investigation Report by JBS&G has been provided in **Attachment A** of this Report.

3.2 Findings

Based on the review of the DSI report, the following data gaps have been identified:

- No environmental sampling has been conducted within the proposed additional works area.

4 Recommendations

Based on the findings of this Assessment, recommendations to address the data gaps identified within the DSI have been outlined **Table 2** below.

Table 2: Recommendations	
Data Gap	Recommendation
No environmental sampling has been conducted within the proposed additional works area.	<p>It is recommended environmental sampling is conducted within the additional works area post-demolition, prior to new construction works.</p> <p>Environmental sampling should be conducted in accordance with the NSW EPA Sampling Design Part 1 – Application guidelines.</p> <p>Although no evidence of asbestos was identified during previous investigation works, future demolition and construction works should be conducted under an unexpected finds protocol in the event that gross contamination is identified.</p>

Should you have any questions regarding this proposal, please do not hesitate to contact the undersigned on (07) 3291 9700.

Yours sincerely,



Jaimee Camphuis
HSE Consultant
Prensa Pty Ltd

Attachments

- Statement of Limitations

- Figure 1: Assessment Boundary
- Attachment A: Details Site Investigation Report – JBS&G 2022

Statement of Limitations

This document has been prepared in response to specific instructions from Besix Watpac to whom the report has been addressed. The work has been undertaken with the usual care and thoroughness of the consulting profession. The work is based on generally accepted standards, practices of the time the work was undertaken. No other warranty, expressed or implied, is made as to the professional advice included in this report.

The report has been prepared for the use by Besix Watpac and the use of this report by other parties may lead to misinterpretation of the issues contained in this report. To avoid misuse of this report, Prensa advise that the report should only be relied upon by Besix Watpac and those parties expressly referred to in the introduction of the report. The report should not be separated or reproduced in part and Prensa should be retained to assist other professionals who may be affected by the issues addressed in this report to ensure the report is not misused in any way.

Prensa is not a professional quantity surveyor (QS) organisation. Any areas, volumes, tonnages or any other quantities noted in this report are indicative estimates only. The services of a professional QS organisation should be engaged if quantities are to be relied upon.

Sampling Risks

Prensa acknowledges that any scientifically designed sampling program cannot guarantee all sub-surface contamination will be detected. Sampling programs are designed based on known or suspected site conditions and the extent and nature of the sampling and analytical programs will be designed to achieve a level of confidence in the detection of known or suspected subsurface contamination. The sampling and analytical programs adopted will be those that maximises the probability of identifying contaminants. Besix Watpac must therefore accept a level of risk associated with the possible failure to detect certain sub-surface contamination where the sampling and analytical program misses such contamination. Prensa will detail the nature and extent of the sampling and analytical program used in the investigation in the investigation report provided.

Environmental site assessments identify actual subsurface conditions only at those points where samples are taken and when they are taken. Soil contamination can be expected to be non-homogeneous across the stratified soils where present on site, and the concentrations of contaminants may vary significantly within areas where contamination has occurred. In addition, the migration of contaminants through groundwater and soils may follow preferential pathways, such as areas of higher permeability, which may not be intersected by sampling events. Subsurface conditions including contaminant concentrations can also change over time. For this reason, the results should be regarded as representative only.

Besix Watpac recognises that sampling of subsurface conditions may result in some cross contamination. All care will be taken and the industry standards used to minimise the risk of such cross contamination occurring, however, Besix Watpac recognises this risk and waives any claims against Prensa and agrees to defend, indemnify and hold Prensa harmless from any claims or liability for injury or loss which may arise as a result of alleged cross contamination caused by sampling.

Reliance on Information Provided by Others

Prensa notes that where information has been provided by other parties in order for the works to be undertaken, Prensa cannot guarantee the accuracy or completeness of this information. Besix Watpac therefore waives any claim against the company and agrees to indemnify Prensa for any loss, claim or liability arising from inaccuracies or omissions in information provided to Prensa by third parties. No indications were found during our investigations that information contained in this report, as provided to Prensa, is false.

Recommendations for Further Study

The industry recognised methods used in undertaking the works may dictate a staged approach to specific investigations. The findings therefore of this report may represent preliminary findings in accordance with these industry recognised methodologies. In accordance with these methodologies, recommendations contained in this report may include a need for further investigation or analytical analysis. The decision to accept these recommendations and incur additional costs in doing so will be at the sole discretion of Besix Watpac and Prensa recognises that that Besix Watpac will consider their specific needs and the business risks involved. Prensa does not accept any liability for losses incurred as a result of Besix Watpac not accepting the recommendations made within this report.



Health Infrastructure c/- Johnstaff

Detailed Site Investigation

St George Hospital Stage 3 Redevelopment

Gray Street, Kogarah NSW

5 September 2022

60571/145438 (Rev 2)

JBS&G Australia Pty Ltd

Health Infrastructure c/- Johnstaff
Detailed Site Investigation
St George Hospital Stage 3 Redevelopment
Gray Street, Kogarah NSW

5 September 2022
60571/145438 (Rev 2)
JBS&G Australia Pty Ltd

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- Appendix B Groundwater Bore Search**
- Appendix C Historical Aerial Photographs**
- Appendix D Historical Land Titles**
- Appendix E EPA Searches**
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- Appendix I Section 10.7 Planning Certificates**
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- Appendix K Calibration and Decontamination Sheets**
- Appendix L Laboratory Certificates and COC Documentation**
- Appendix M QA/QC Summary**
- Appendix N Statistical Analyses**
- Appendix O Monitoring Well Survey**

Abbreviations

Term	Definition
ACM	Asbestos Containing Materials
AF/FA	Asbestos fines and friable asbestos
AEC	Areas of Environmental Concern
AHD	Australian Height Datum
ASS	Acid Sulfate Soils
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
CLM Act	NSW Contaminated Land Management Act 1997
COC	Chain of Custody
COPC	Contaminants of Potential Concern
CSM	Conceptual Site Model
DBYD	Dial Before You Dig
DP	Deposited Plan
DQI	Data Quality Indicators
DQO	Data Quality Objectives
DSI	Detailed Site Investigation
EIL	Ecological Investigation Levels
EPA	NSW Environment Protection Authority
ESA	Environmental Site Assessment
ESLs	Ecological Screening Levels
ha	Hectare
HILs	Health Investigation Levels
HSLs	Health Screening Levels
JBS&G	JBS&G Australia Pty Ltd
LEP	Local Environment Plan
LOR	Limit of Reporting
NATA	National Accreditation Testing Authority
OCP	Organochlorine Pesticides
OPP	Organophosphorous Pesticides
PAH	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyls
PID	Photoionisation Detector
POEO Act	NSW Protection of the Environment Operations Act 1997
PSI	Preliminary Site Investigation
QA/QC	Quality Assurance/Quality Control
RPD	Relative Percentage Difference
SAQP	Sampling Analytical and Quality Plan
SGH	St George Hospital
SGH&CHS	St George Hospital and Community Health Services
TRH	Total Recoverable Hydrocarbons
UCL	Upper Confidence Limit
VOC	Volatile Organic Compounds

Executive Summary

JBS&G Australia Pty Ltd (JBS&G) was engaged by Johnstaff on behalf of Health Infrastructure (HI, the client) to provide environmental consultancy services for the proposed St George Hospital (SGH) Stage 3 Redevelopment relating to a new integrated ambulatory care and sub-acute precinct.

The St George Hospital is located at 16 Kensington Street, Kogarah NSW and comprises the lots outlined in **Table 1.1** below. The existing St George Hospital campus has an area of approximately 5.16Ha.

This report accompanies a State Significant Development Application that seeks approval for the construction and operation of a new Integrated Ambulatory Care Building which contains 24,000m² gross floor area over 8 storeys with additional three basement level car parks. For a detailed project description refer to the Environmental Impact Statement prepared by Ethos Urban.

Table 1.1 St George Hospital Lot/DP Identification

Lot, DP	Street Address
Lot 12, DP 800476	16 Kensington Street, Kogarah
Lot 1, DP 791072	28A Gray Street, Kogarah
Lot 1-3, 8-9 Section C, DP 976627	28-30 Gray Street, Kogarah
Lot 4, DP 9719731	34 Gray Street, Kogarah
Lot 1-2, DP 973811	36-40 Gray Street, Kogarah
Lot 1, DP 971532	36-40 Gray Street, Kogarah
Lot 7, DP 1105995	3 Short Street, Kogarah
Lot 1, Section F, DP 976627	16 Kensington Street, Kogarah
Lot 1-8, DP 1130879	18 Kensington Street, Kogarah

This report has been prepared in response to the requirements contained within the Secretary's Environmental Assessment Requirements (SEARs) issued for the project, specifically items 13 and 17 as outlined in **Table 1.2** below.

Table 1.2: SEARs Requirements

Item	SEARs Requirement	Relevant Section of Report
13	Ground and Water Conditions <ul style="list-style-type: none"> Provide an assessment of the potential impacts on soil resources, including related infrastructure and riparian lands on and near the site. Provide an assessment of the potential impacts on surface and groundwater resources (quality and quantity), including related infrastructure, hydrology, aquatic and groundwater dependent ecosystems, drainage lines, downstream assets and watercourses. Provide an assessment of salinity and acid sulfate soil impacts. 	Groundwater quality assessment – documented throughout the report. Acid sulfate soil assessment – Section 2.6 Salinity assessment – Section 2.7
17	Contamination and Remediation In accordance with Chapter 4 of SEPP (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.	Documented throughout the report.

The SGH Stage 3 Redevelopment area ('the site') is legally identified as Lots 1-6 in Deposited Plan (DP) 1130879 and Part Lot 12 in DP 800476 and comprises an area of approximately 6,400 m². The site location and layout are provided in **Figures 1 and 2**.

Previous investigations (refer to **Section 3**) within the broader St George Hospital and Community Health Services (SGH&CHS) campus did not identify broadscale soil or groundwater contamination

across the campus. A Detailed Site Investigation (DSI) was required for the Stage 3 Redevelopment area to assess the potential for contamination based on current and historical site activities and to draw conclusions regarding the potential contamination status of the site to support the SSDA, as per the requirements of *State Environmental Planning Policy (SEPP) Resilience and Hazards 2021*.

The objective of this DSI was to assess whether the site is suitable or can be made suitable, from a contamination perspective, for ongoing health service facility land use and where required make recommendations to enable such conclusions.

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

- A review of available site history and background information to identify potential areas of environmental concern (AECs) and associated contaminants of potential concern (COPC), including:
 - Section 10.7 (2) & (5) certificates and other publicly available information obtained from council;
 - Records of stored dangerous goods held by SafeWork NSW;
 - Historical land title records;
 - Historical aerial photographs obtained from the NSW Spatial Services;
 - Publicly available Environment Protection Authority (EPA) records held by NSW EPA, where readily available;
 - Publicly available heritage records held by NSW Heritage, and the Australian Heritage database, where readily available; and
 - Licensed groundwater bores present within a 500 m radius of the site available online from Water NSW;
- Review of the environmental setting including topography, geology and hydrogeology of the site and surrounding areas;
- A detailed site inspection to identify potential AECs and confirm desktop findings;
- Development and documentation of a conceptual site model (CSM) based on the available information;
- Preparation of a Sampling and Analysis Quality Plan (SAQP) for the works, developed using the Data Quality Objectives (DQO) project planning process;
- Implementation of the DSI program including the following:
 - Advancement of 11 boreholes within the site (BH01-BH11) and collection of soil samples.
 - Conversion of three boreholes (BH01, BH06 and BH09) into groundwater monitoring wells and subsequent groundwater sampling.
- Laboratory analysis of selected samples for a range of COPCs;
- Comparison of collected soil and groundwater data against relevant endorsed criteria in relation to assessment, from a contamination perspective, of land use suitability; and
- Preparation of a DSI report in accordance with EPA guidelines including conclusions regarding the potential contamination status of the site.

Based on the scope of work and subject to the limitations in **Section 11**, the following conclusions are made:

- Consistent with the framework presented by the *State Environmental Planning Policy (SEPP) Resilience and Hazards 2021*, a detailed site (contamination) assessment was undertaken for the development which comprised a review of historical photography, a search of NSW EPA records, review of previous (predominantly geotechnical) reports and a site inspection. This assessment identified that the site was historically used as a residential and subsequently as a health care facility since the early 1900s.
- The review of historical site use information, previous reports, and inspection of site conditions identified potential AECs and associated COPCs, which were associated with the potential importation of fill materials from unknown origins, hazardous materials associated with historical demolition, refurbishment and construction work, a silver recovery system within the radiology building and the application of pesticides for maintenance of vegetated areas. Potential off-site hydrogeological upgradient sources of contamination identified included a 10,000 L diesel UST located to the southwest of the site and the Kogarah Fire Station located to the east of the site.
- Implementation of a DSI, including soil and groundwater sampling and laboratory analysis activities in accessible portions of the site (excluding operational building footprints) identified that concentrations of COPCs were not identified at levels posing an unacceptable risk to human receptors relating to the proposed redevelopment of the site such that remediation and/or management would be required.
- TRH (>C16 – C34) concentration in one soil sample were noted to exceed the adopted ecological screening level, however, statistical analyses for the TRH (>C16 – C34) data set have indicated that the exceedance was not statistically significant with regard to the population data set. Therefore, the exceedances are not considered to pose an unacceptable ecological risk that requires management or remediation with regard to the development proposal.
- Concentrations of cadmium, copper, nickel, and zinc reported in groundwater are considered indicative of naturally occurring background levels. PFAS compound analysis results for the sum of PFHxS and PFOS were detected in the inferred upgradient well (BH01) at concentrations exceeding conservative drinking water criterion. However, as beneficial reuse of groundwater at the site is unlikely given that the proposed development will include reticulated water supply, the reported COPC concentrations in groundwater are not considered to represent an unacceptable risk to future on-site receptors. There are no identified off-site migration issues relating to groundwater at the site.
- Based on the proposed land use, the scope of work completed for this assessment, and the limitations presented in **Section 11**, the current investigation did not identify widespread contamination associated with the site or identify any impacts to current or future site users that would require specific contamination remediation or management to reduce unacceptable risks and therefore, the site is considered suitable for the proposed development without application of a site contamination management/remedial strategy.

The current investigation did not identify conditions that require specific contamination remediation or management to reduce unacceptable risks. As such, a specific site contamination management strategy for this site is not required with regard to the proposed development activities and the land is considered suitable in its current state for the purposes of the development without the need for remediation. To ensure any small scale issues as may be encountered during demolition and/or proposed earthworks are appropriately dealt with, the following is recommended:

- following decommissioning/demolition of the active health infrastructure, a data gap investigation be completed within the building footprints to verify conditions are consistent with those on the balance of the site.
- an Unexpected Finds Protocol (UFP) be incorporated into the site Construction Environmental Management Plan (CEMP) such that any small scale impacts, including any issues as may be encountered within the building footprints, may be appropriately identified and managed during earthworks.

1. Introduction

1.1 Background

JBS&G Australia Pty Ltd (JBS&G) was engaged by Johnstaff on behalf of Health Infrastructure (HI, the client) to provide environmental consultancy services for the proposed St George Hospital (SGH) Stage 3 Redevelopment relating to a new integrated ambulatory care and sub-acute precinct.

The St George Hospital is located at 16 Kensington Street, Kogarah NSW and comprises the lots outlined in **Table 1.1** below. The existing St George Hospital campus has an area of approximately 5.16 Ha.

Table 1.1 St George Hospital Lot/DP Identification

Lot, DP	Street Address
Lot 12, DP 800476	16 Kensington Street, Kogarah
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Lot 1, Section F, DP 976627	16 Kensington Street, Kogarah
Lot 1-8, DP 1130879	18 Kensington Street, Kogarah

This report accompanies a State Significant Development Application (SSDA) that seeks approval for the construction and operation of a new Integrated Ambulatory Care Building which contains 24,000m² gross floor area over 8 storeys with additional three basement level car parks. For a detailed project description refer to the Environmental Impact Statement prepared by Ethos Urban.

This report has been prepared in response to the requirements contained within the Secretary's Environmental Assessment Requirements (SEARs) issued for the project, specifically items 13 and 17 as outlined in **Table 1.2** below.

Table 1.2: SEARs Requirements

Item	SEARs Requirement	Relevant Section of Report
13	Ground and Water Conditions <ul style="list-style-type: none"> Provide an assessment of the potential impacts on soil resources, including related infrastructure and riparian lands on and near the site. Provide an assessment of the potential impacts on surface and groundwater resources (quality and quantity), including related infrastructure, hydrology, aquatic and groundwater dependent ecosystems, drainage lines, downstream assets and watercourses. Provide an assessment of salinity and acid sulfate soil impacts. 	Groundwater quality assessment – documented throughout the report. Acid sulfate soil assessment – Section 2.6 Salinity assessment – Section 2.7
17	Contamination and Remediation In accordance with Chapter 4 of SEPP (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.	Documented throughout the report.

The SGH Stage 3 Redevelopment area ('the site') is legally identified as Lots 1-6 in Deposited Plan (DP) 1130879 and Part Lot 12 in DP 800476 and comprises an area of approximately 6,400 m². The site location and layout are provided in **Figures 1 and 2**.

Previous investigations (refer to **Section 3**) within the broader St George Hospital and Community Health Services (SGH&CHS) campus did not identify broadscale soil or groundwater contamination across the campus. A Detailed Site Investigation (DSI) was required for the Stage 3 Redevelopment area to assess the potential for contamination based on current and historical site activities and to draw conclusions regarding the potential contamination status of the site to support the SSDA, as per the requirements of *State Environmental Planning Policy (SEPP) Resilience and Hazards 2021*.

The DSI documented herein has been prepared in general accordance with guidelines made or approved by the NSW Environment Protection Authority (EPA).

A concurrent geotechnical investigation was undertaken by JBS&G's geotechnical specialist subconsultant, Pells Sullivan Meynink (PSM), with a standalone report issued for those investigations.

1.2 Objectives

The objective of this DSI was to assess whether the site is suitable or can be made suitable, from a contamination perspective, for ongoing health service facility land use and where required make recommendations to enable such conclusions.

1.3 Scope of Work

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

- A review of available site history and background information to identify potential areas of environmental concern (AECs) and associated contaminants of potential concern (COPC), including:
 - Section 10.7 (2) & (5) certificates and other publicly available information obtained from council;
 - Records of stored dangerous goods held by SafeWork NSW;
 - Historical land title records;
 - Historical aerial photographs obtained from the NSW Spatial Services;
 - Publicly available EPA records held by NSW EPA, where readily available;
 - Publicly available heritage records held by NSW Heritage, and the Australian Heritage database, where readily available; and
 - Licensed groundwater bores present within a 500 m radius of the site available online from Water NSW;
- Review of the environmental setting including topography, geology and hydrogeology of the site and surrounding areas;
- A detailed site inspection to identify potential AECs and confirm desktop findings;
- Development and documentation of a conceptual site model (CSM) based on the available information;
- Preparation of a Sampling and Analysis Quality Plan (SAQP) for the works, developed using the Data Quality Objectives (DQO) project planning process;
- Implementation of the DSI program including the following:
 - Advancement of 11 boreholes within the site (BH01-BH11) and collection of soil samples.
 - Conversion of three boreholes (BH01, BH06 and BH09) into groundwater monitoring wells and subsequent groundwater sampling.

- Laboratory analysis of selected samples for a range of COPCs;
- Comparison of collected soil and groundwater data against relevant endorsed criteria in relation to assessment, from a contamination perspective, of land use suitability;
- Preparation of a DSI report in accordance with EPA guidelines including conclusions regarding the potential contamination status of the site.

2. Site Condition and Surrounding Environment

2.1 Site Identification

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

Table 2.1: Summary Site Details

Lot/DP	Lots 1-6 in DP 1130879 and Part Lot 12 in DP 800476
Address	Gray Street, Kogarah, NSW 2217
Local Government Authority	Georges River Council
MGA Coordinates (GDA94 MGA 56)	E: 327533 N: 6240024 (approximate centre of the site)
Site Zoning	SP2 Infrastructure under Georges River Local Environmental Plan (LEP)
Current Use	Health services facility
Previous Use	Health services facility
Proposed Use	Health services facility
Site Area	6,400 m ²

2.2 Site Description

A detailed site inspection was completed by one of JBS&G's qualified and experienced field scientists on 31 May 2021. Relevant site observations are discussed below, and a photographic log is included in **Appendix A**. The site layout is shown in **Figure 2**.

The site comprised an irregular shaped parcel of land, bound by Belgrave Street to the northeast, Kensington Street to the northwest, Fire and Rescue NSW Kogarah fire station to the southwest and the broader SGH&CHS campus to the southeast.

The site footprint is predominantly sealed with building footprints and asphaltic/concrete hardstands and with some minor landscaped areas. The northeastern portion of the site was occupied by the northern extent of a three-storey building of brick/concrete construction identified as Building 6 (Prince William Wing) (**Photograph 1, Appendix A**). The single storey neurology annex was attached to the northeastern extent of Building 6 (**Photograph 2, Appendix A**). A raised garden bed was located at the entrance to Building 6 from Belgrave Street, retained approximately 0.4m higher than the adjacent footpath (**Photograph 3, Appendix A**).

An asphalt paved carpark was located to the southwest of Building 6 accessed via a secured boom gate off Kensington Street (**Photographs 5 to 8, Appendix A**). The asphaltic pavement was generally in good condition with minor cracking observed. The carpark was observed slope toward the northeast.

A single storey building of brick/concrete construction identified as Building 4 Radiology (Burt Wing) was located to the southwest of the car park (**Photographs 9 and 10, Appendix A**). The southwestern portion of the site was occupied by Building 26 (Clinical Skills Centre) which comprised demountable structures (**Photographs 12, 13 and 20, Appendix A**). A concrete paved access road was located to the southwest of Building 4 providing access to the asphalt paved car park located to the south of Building 26. The concrete and asphaltic pavements were generally in good condition with minor cracking observed. A small garden bed covered in loose gravel/woodchips and comprising two trees and a shrub was located between the access road and Building 4 (**Photograph 11, Appendix A**). The access road and carpark were generally level with Kensington Street and the eastern extent of the carpark was retained a higher level to the buildings to the east (**Photograph 15, Appendix A**). A waste storage area was located in the northwestern portion of the carpark including waste bins and a skip bin (**Photograph 11, Appendix A**). Additionally, a shipping container was observed to the west of the waste storage area. A Covid-19 flu assessment clinic occupied the southeastern portion of the carpark.

The southern portion of the carpark was secured by temporary construction fencing and used as a site compound by contractors undertaking refurbishment works associated with Building 3 (Clinical Services Building) (**Photograph 22, Appendix A**). Concrete slab associated with 10,000 L underground storage tank (UST) as identified in previous investigations (refer to **Section 3**) was observed to the southwest of the site beyond the current site boundary (**Photographs 24 to 27, Appendix A**). No staining was observed on the concrete slab in the vicinity of the UST.

At the time of the inspection, there was no evidence of surface staining associated with chemical spills, no signs of distressed vegetation or other potential visual indicators of significant contamination issues at the site.

2.3 Surrounding Land Use

Surrounding land uses are described following:

- Northeast – Belgrave Street followed by multi storey mixed commercial/residential use buildings beyond;
- Northwest – Kensington Street followed by multi storey mixed commercial/residential use buildings and rail corridor further northwest;
- Southwest – Fire and Rescue NSW Kogarah fire station, followed by Gray Street and low/medium density residential properties beyond; and
- Southeast - Broader SGH&CHS campus followed by Princes Highway.

2.4 Topography

A review of regional topographic data provided on Spatial Information eXchange (SIX Maps¹) indicated that the site is situated at an elevation of approximately 28-34 m Australian Height Datum (AHD). A local high point was noted in the northwestern portion of the site at 32-34 m AHD.

A review of the site survey completed by LTS Lockley (LTS 2014²) confirmed that the northeastern extent of the site lies at an elevation of approximately 28.38 m AHD and the carpark in the southwestern portion of the site lies at an elevation of approximately 31.42 m AHD. The site inspection completed by JBS&G indicated that the site was generally level with surrounding streets and has been subject to cut and fill to form the current layout.

2.5 Geology

Review of the Sydney 1:100 000 geological map (DMR 1983³) indicates that the site is underlain by the Wianamatta Group Hawkesbury Sandstone – medium to coarse grained quartz sandstone, very minor shale and laminite lenses.

Reference to the online ESPADE 2.1 tool hosted by the NSW Department of Planning, Industry and Environment (DPIE 2021⁴) indicated the site is located on the Lucas Heights residual soil landscape comprising moderately deep, hardsetting yellow podzolic soils and yellow soloths; yellow earths on outer edges. The landscape is characterised by gently undulating crests and ridges on plateau surfaces of the Mittagong formation (alternating bands of shale and fine-grained sandstones); local relief to 30 m, slopes <10%; rock outcrop absent; and extensively or completely cleared, dry sclerophyll low forest and woodland. Limitations of this soil landscape group are stony soil, low soil fertility and low available water capacity.

¹ Six Maps, <https://maps.six.nsw.gov.au/> accessed 17 June 2021

² Plan of Detail and Levels over Lot 1-6 DP 1130879 and Lot 12 DP 800476 known as St George Hospital at Kogarah, Reference 33459DT Revision V, 14 October 2014 (LTS 2014)

³ 1:100 000 Sydney Geological Map Sheet 9130 Edition 1. Department of Mineral Resources, Published 1983, DMR 1983

⁴ ESPADE 2.1, NSW Department of Planning, Industry and Environment (DPIE), Accessed 17 June 2021 (DPIE 2021)

2.6 Acid Sulfate Soils

A review of the Acid Sulfate Soil Risk Map for Botany Bay (NSW DLWC 1997⁵) indicated that the site is located within an area of 'no known occurrence of Acid Sulfate Soils'. This classification relates to sites where ASS or Potential ASS (PASS) conditions are not known or not likely to occur.

Review of the Section 10.7 (2) & (5) Planning Certificates obtained for two representative lots (Lot 12 DP 800476 and Lot 2 from DP1130879) identified that the land is not affected by a policy adopted by Council that restricts the development of the land because of the likelihood of acid sulphate soils.

A review of the Georges River LEP (2021), Acid Sulfate Soils Map (Sheet_010), identified that the site is not located in land Classed 1-5 where development consent is required relating to potential disturbance of ASS. With due consideration to the geological and soil characteristics of the site, in addition to this information, management of development activities is not required to further address the potential for impact on ASS either within or in proximity of the site.

2.7 Salinity

Soils containing elevated levels of salts occur naturally due to underlying geological formations. Salinity occurs when salts found naturally in the soil or groundwater are mobilised. Salinity occurs in many parts of New South Wales including:

- Dryland salinity, which is widespread on the western slopes and in the Hunter Valley and Sydney Basin;
- Irrigation and river salinity, which are seen in the southern irrigation areas of New South Wales and in the Macquarie, Castlereagh, Bogan, Namoi and Gwydir Rivers; and
- Urban salinity, which affects more than 40 towns across the Murray Darling Basin in New South Wales, and in the lower Hunter Valley and Western Sydney.

Salinity is not generally associated with the Wianamatta Group Hawkesbury Sandstone which underlies the site.

During a site inspection and intrusive sampling at the site, there was no indication of saline soils on the ground surface and there was no evidence of salt scarring identified at the site. Further, no signs of distressed vegetation were observed.

With due consideration to the geological and soil characteristics of the site, management of development activities are not required to address the potential for impact on salinity.

2.8 Hydrology

The nearest surface water receptor is Scarborough Ponds located approximately 900m to the east of the site. The Scarborough Park wetlands form part of a system of tidal and freshwater swamps which ultimately drains into Botany Bay located approximately 1.9 km east of the site.

The site footprint predominantly comprised sealed asphaltic/concrete hardstands and building footprints with minor landscaped areas. As such, surface water generated during periods of rainfall is anticipated to migrate from the site via discharge into onsite engineered stormwater drainage infrastructure and ultimately discharge into Botany Bay with only minor subsurface infiltration reflective of the extent of landscaped (non-hardstand areas).

⁵ 'Acid Sulphate Soil Risk Map – Botany Bay, Edition 2', 1997 1:25 000, NSW Department of Land and Water Conservation (DLWC), Ref 9130S3 (NSW DLWC 1997)

2.9 Hydrogeology

A search for registered groundwater bore information, undertaken on the Water NSW website⁶ indicated two groundwater bores were located within a 500 m radius of the site and are summarised in **Table 2.2** below.

It is noted that over 70 groundwater bores are located within a 1000 m radius further east of the site, adjacent to the Botany Bay and reported to be used for domestic purposes. Summary pages of groundwater bore information provided by Water NSW is presented in **Appendix B**.

Table 2.2: Groundwater Bore Summary Details

Bore ID	Location	Owner	Intended Purpose	Depth (m bgs)	Standing Water Level (m bgs)
GW024615	400 m southeast of the site	Private	Domestic	5.5	-
GW116347	400 m northeast of site	-	-	-	-

At the time of the CH2MHill (2014b) investigation (refer to **Section 3**), groundwater standing water levels (SWLs) within the broader SGH&CHS campus were reported between 21.43 and 27.77 m AHD with the general inferred groundwater flow direction to the east towards Scarborough Lakes and Botany Bay.

2.10 Meteorology

A review of average climatic data for the nearest Bureau of Meteorology monitoring location (Sydney Airport AMO⁷) indicates the site is located within the following meteorological setting:

- Average minimum temperatures vary from 7.3 °C in July to 19.1 °C in February;
- Average maximum temperatures vary from 17.2 °C in July to 26.7 °C in January;
- The average annual rainfall is approximately 1079.1 mm with rainfall greater than 1 mm occurring on an average of 95.5 days per years; and
- Monthly rainfall varies from 59.7 mm in September to 124.8 mm in June, with the wettest period from February to June.

⁶ <http://allwaterdata.water.nsw.gov.au/water.stm> accessed 17 June 2021.

⁷ http://www.bom.gov.au/climate/averages/tables/cw_067113.shtml, Commonwealth of Australia, 2020 Bureau of Meteorology, Product IDCJCM0028 Prepared at Thu 26 Nov 2020 and accessed by JBS&G on 2 December 2020.

3. Summary Site History

3.1 Aerial Photographs

Aerial photographs from 1930, 1943, 1955, 1965, 1975, 1986, 1994, 2002, 2010 and 2021 obtained from the NSW Spatial Services were reviewed. These have been included in **Appendix C**. A summary of the findings is presented in **Table 3.1** below.

Table 3.1 Summary of Historical Aerial Imagery Review

Year	Observations
1943	The site appeared to be established as a hospital with multiple buildings observed in the eastern and western portions of the site. The central portion of the site appeared to be vacant and comprised a grassed/vegetated area. The quality of the aerial photograph precluded a detailed review. The surrounding areas within the Kogarah Town Centre appeared to be used for a mixture of commercial and low-medium density residential land uses. The Kogarah fire station was observed to the west of the site. The rail corridor was observed to the northwest of the site.
1943	One structure located in the northeastern portion, and one located in the southwestern portion as observed in the previous 1943 aerial photograph had been demolished. Development activities within the broader hospital site were observed with a new building constructed partially extending into the current site and encompassing the central portion of the site. Cut and fill activities were observed in the western extent of the site. The surrounding areas remained relatively unchanged.
1955	Two buildings located in the eastern portion of the site had been demolished and replaced by Prince William Wing Building. A paved access road and landscaped area was observed to the west of Building 6 Prince William Wing providing access to the site from Kensington Street. The surrounding areas remained relatively unchanged.
1965	The site remained relatively unchanged from the previous 1955 aerial photograph. One small building located adjoining the southwestern boundary had been demolished and replaced with a new structure. The surrounding areas remained relatively unchanged.
1975	The site remained relatively unchanged from the previous 1965 aerial photograph. Continued development associated with the broader hospital site was evident with a large structure observed to the south of the site.
1986	A large rectangular structure had been constructed in the central portion of the site where the paved access road and landscaped area was previously located. The surrounding areas remained relatively unchanged.
1994	Two smaller structures within the western extent of the site had been demolished and replaced by Building 26 (Clinical Skills Centre). Two smaller structures were also observed to the south of Building 26. Major development within the broader hospital site was observed with a series of large buildings observed to the south of the site.
2002	The building partially located within the central portion of the site as observed in the 1943 aerial photograph and the adjacent large rectangular structure as observed in the 1986 aerial had been demolished. Building 4 Radiology (Burt Wing) had been constructed and a large building had been constructed encompassing the area between Building 6 and Building 4. The two smaller structures previously observed to the south of Building 26 had been demolished. The surrounding areas had been redeveloped and several high-rise buildings were observed to the north and east of the site.
2010	The site and surrounds remained relatively unchanged from the previous 2002 aerial photograph.
2021	The building previously observed in between Building 6 and Building 4 had been demolished and this area was occupied by an on-grade asphalt paved carpark. The remainder of the site was relatively unchanged from the previous 2010 aerial photograph.

3.2 Historical Land Title Records

Historical title records obtained for two representative lots including Lot 2 in DP 1130879 and Lot 12 DP800476 are included in **Appendix D**. A summary of the historical title documentation records for the site is provided in **Table 3.2** below.

Table 3.2 Summary of Historical Title Search

Period Held	Schedule of Registered Proprietors
As regards to the part numbered 1 on attached D.P. 209412	
26.11.1908 (1908 to 1925)	Trustees under the Methodist Church Property Acts 1889-1902: William Henry Beale (Minister) Edward Pritchard (Ironworker) And Others.
10.09.1925 (1925 to 1952)	Trustees under the Methodist Church Property Acts 1889-1902: George Gilbert Olds (Picture Frame Maker) George Henry Alexander Wilson (Plumber) And Others.
04.03.1952 (1952 to 1972)	Trustees under the Methodist Church Property Acts 1889-1902: Clarence Wilfred Thew (Railway Guard) Reginald Thompson (Postal Official) And Others.
26.06.1972 (1972 to 1986)	Methodist Church (N.S.W.) Property Trust
17.09.1986 (1986 to Date)	# The St. George Hospital Now # Health Administration Corporation
As regards to the part numbered 2 on attached D.P. 209412	
25.09.1916 (1916 to 1962)	The Minister for Public Works
20.11.1962 (1962 to Date)	# The St. George Hospital Now # Health Administration Corporation
As regards to the part numbered 3 on attached D.P. 209412	
15.01.1918 (1918 to 1932)	The Minister for Public Works
27.04.1932 (1932 to 1952)	George Henry Alexander Wilson (Gentleman) Robert John Rolfe (Painter) John Thompson (Gentleman) Roy Milton Walker (Clerk) Amos Barker (Gentleman) Clarence Wilfred Thew (Railway Employee) James Lowbridge (Railway Employee) Reginald Thompson (Postal Official) Charles Ernest Austin (Gentleman) Arthur Suggate (Tramway Employee) Leslie Charles Forwood (Clerk) George Gilbert Olds (Frame Maker) Harold Joseph McLean (Machinist)
04.03.1952 (1952 to 1972)	Trustees under the Methodist Church Property Acts 1889-1902: Clarence Wilfred Thew (Railway Guard) Reginald Thompson (Postal Official) And Others.
26.06.1972 (1972 to 1986)	Methodist Church (N.S.W.) Property Trust
17.09.1986 (1986 to Date)	# The St. George Hospital Now # Health Administration Corporation
As regards to the part numbered 4 on attached D.P. 209412	
15.01.1918 (1918 to 1952)	The Minister for Public Works
04.03.1952 (1952 to 1972)	Trustees under the Methodist Church Property Acts 1889-1902: Clarence Wilfred Thew (Railway Guard) Reginald Thompson (Postal Official) And Others.
26.06.1972 (1972 to 1986)	Methodist Church (N.S.W.) Property Trust
17.09.1986 (1986 to Date)	# The St. George Hospital Now

	# Health Administration Corporation
As regards to the part numbered 5 on attached D.P. 209412	
15.01.1918 (1918 to 1962)	The Minister for Public Works
20.11.1962 (1962 to Date)	# The St. George Hospital Now # Health Administration Corporation
As regards to the part numbered 7 on attached D.P. 209412	
17.02.1920 (1920 to 1962)	Harry Peter Herrman (Clerk) Edmund Osmond Bradley (Mercer) (Transmission Application not investigated)
20.11.1962 (1962 to Date)	# The St. George Hospital Now # Health Administration Corporation
As regards to the part numbered 8 on attached D.P. 209412	
17.02.1920 (1920 to 1920)	Harry Peter Herrman (Clerk) Edmund Osmond Bradley (Mercer) (Transmission Application not investigated)
17.02.1920 (1920 to 1955)	Bertha Varley (Widow)
30.03.1955 (1955 to 1955)	Alan Kenneth Varley (Mercer) Arthur Clive Varley (Mercer) (Transmission Applications not investigated)
30.03.1955 (1955 to 1961)	Alan Kenneth Varley (Mercer)
21.06.1961 (1961 to 1961)	Northside Properties Pty. Limited
24.08.1961 (1961 to Date)	# The St. George Hospital Now # Health Administration Corporation
As regards to the part numbered 8 on attached D.P. 209412	
06.03.1912 (1912 to 1962)	Juliana Lewis (Married Woman)
20.11.1962 (1962 to Date)	# The St. George Hospital Now # Health Administration Corporation
As regards to the part numbered 9 on attached D.P. 209412	
25.09.1916 (1916 to 1962)	Minister for Public Works
20.11.1962 (1962 to Date)	# The St. George Hospital Now # Health Administration Corporation
As regards to the part numbered 10 on attached D.P. 209412	
25.09.1916 (1916 to 1962)	Minister for Public Works
20.11.1962 (1962 to Date)	# The St. George Hospital Now # Health Administration Corporation
As regards to the part numbered 11 on attached D.P. 209412	
25.09.1916 (1916 to 1962)	Minister for Public Works
20.11.1962 (1962 to Date)	# The St. George Hospital Now # Health Administration Corporation
As regards to the part numbered 12 on attached D.P. 209412	
25.09.1916 (1916 to 1962)	Minister for Public Works
20.11.1962 (1962 to Date)	# The St. George Hospital Now # Health Administration Corporation
As regards to the part numbered 13 on attached D.P. 209412	

06.02.1923 (1923 to 1939)	Niels Peter Nielsen (Engineer) Charles Fry (Retired Civil Servant) Herman Bustin Primrose (Solicitor)
02.05.1939 (1939 to Date)	# The St. George District Hospital Then # The St. George Hospital Now # Health Administration Corporation
As regards to the part numbered 14 on attached D.P. 209412	
06.02.1923 (1924 to 1938)	Niels Peter Nielsen (Engineer) Charles Fry (Retired Civil Servant) Herman Bustin Primrose (Solicitor)
11.05.1938 (1938 to Date)	The St. George District Hospital Then # The St. George Hospital Now # Health Administration Corporation
As regards to the part numbered 15 on attached D.P. 209412	
06.02.1923 (1924 to 1938)	Niels Peter Nielsen (Engineer) Charles Fry (Retired Civil Servant) Herman Bustin Primrose (Solicitor)
11.05.1938 (1938 to Date)	# The St. George District Hospital Then # The St. George Hospital Now # Health Administration Corporation

3.3 EPA Records

Search of the NSW EPA database was undertaken on 17 June 2021 (**Appendix E**) for the site and immediate surroundings. The search consisted of the following:

- NSW EPA Protection of the Environment Act public register of licence, applications and notices (maintained under Section 308 of the Protection of the Environment Operations Act 1997 (POEO Act));
- NSW EPA contaminated land public register of record of notices (under Section 58 of the Contaminated Land Management Act 1997 (CLM Act)); and
- NSW contaminated sites notified to the EPA (under Section 60 of the CLM Act).

Results of the searches are discussed below.

POEO Act

A POEO licence was issued to South Eastern Sydney And Illawarra Area Health Service trading as St George Hospital for Hazardous, Industrial or Group A Waste Generation or Storage in 2000 which is no longer in force.

The following was identified with regards to the area surrounding of the site:

- A POEO licence was issued to AME Properties Pty Ltd t/as St George Private Hospital located at 1 South Street, Kogarah, NSW (approx. 90m to the southeast of the site) for Hazardous, Industrial or Group A Waste Generation or Storage in 2000 which is no longer in force.
- Penalty notice issued in 2017 for the property located at 3 Railway Lands, Kogarah, NSW for operating fuel burning equipment/industrial plant not fitted with control equipment.
- A POEO licence was issued to Pathology Services Pty Limited located at 79 Princes Highway, Kogarah, NSW (approx. 300m to the northeast of the site) for Hazardous, Industrial or Group A Waste Generation or Storage in 1999 which has been surrendered.

Section 58 of CLM Act

No notices have been issued under the CLM Act for the site or the immediate surrounds.

Section 60 of CLM Act

The site is not on the list of NSW contaminated sites notified to the EPA. In the vicinity of the site the following have been notified:

- Scarborough Park South located at 184R Production Avenue, Kogarah (approx. 1.4 km southeast of the site) is classified as a landfill with regulation being finalised.
- Caltex Service Station located at 29 President Avenue, Kogarah (approx. 700 m northeast of the site) is classified as a service station with regulation under CLM Act not required.
- Former 7-Eleven Kogarah located at 734 Princes Highway, Kogarah (approx. 360 m northeast of the site) is classified as a service station with regulation being finalised,
- Woolworths Petrol Service Station located at 69 Princes Highway, Kogarah (approx. 400 m northeast of the site) is classified as a service station with regulation under CLM Act not required.

3.4 EPA Per- and Poly- Fluoroalkyl Substances (PFAS) Register

A search of the EPA's PFAS register indicated that there were no records pertaining to the site. A record of the search is presented in **Appendix E**.

3.5 Australian and NSW Heritage Register

A search of the Australian and NSW Heritage databases was undertaken on 1 June 2021 and records are included in **Appendix F**. The search identified no items of heritage significance affecting the site.

The Fire and Rescue NSW Kogarah Fire Station (built 1907) located adjoining the southwestern boundary of the site was identified on the Australian and NSW Heritage Registers.

3.6 NSW Fair Trading Loose Fill Asbestos Insulation Register

A search of the Fair Trading NSW Loose-fill Asbestos Insulation Register (LFAI register⁸) for the site addresses (**Appendix G**) has indicated the site is not currently registered as being affected by the presence of LFAI.

3.7 Naturally Occurring Asbestos Map

A search of the NSW Resources and Geoscience Natural Occurring Asbestos database (**Appendix H**) for the site has indicated the site has no presence of naturally occurring asbestos.

3.8 Dangerous Goods Search

A dangerous goods licence search of the stored chemical information database of SafeWork NSW for the site was not able to be undertaken as part of the current DSI in the absence of a site owner letter of authorisation.

Table 3.3 provides a summary of records reported in CH2MHill (2014b) in relation to storage of dangerous goods at the broader SGH&CHS campus based on searches undertaken during the historical EIS (2011) investigation.

⁸

http://www.fairtrading.nsw.gov.au/ftw/Tenants_and_home_owners/Loose_fill_asbestos_insulation/Public_register_of_affected_properties.page?#Accessing_the_LFAI_Register, Accessed on 23 June 2021

Table 3.3: Summary of Historical Dangerous Goods Search

Depot No.	Type of Store / Date Noted	Maximum Size	Contains	Location
Present at the time of CH2MHill (2014)				
1B	AST	33,000L	Refrigerated Liquid Oxygen	New Services Centre
1C	AST	5,000L	Refrigerated Liquid Oxygen	New Services Centre
4	Roofed Store	5,000L	Ethanol	Clinical Services Building
5	Cylinder Store	15,000L	Compressed Air & Nitrogen	New Services Centre
5	Cylinder Store	8,000L	Compressed Oxygen & Nitrous Oxide	New Services Centre
5.1	Cylinder Store	8,000L	Compressed Argon	New Services Centre
7	Flammable Liquids Cabinet (FLC)	250L	Ethanol (formerly also acetone, diethyl ether & alcohol)	Pharmacy – Ward Block 1
8	UST	10,000L	Diesel	Northeast Corner of Clinical Services Building
11	AST	7,000L	Diesel	Adjacent to Gray Street Car Park Building 23
12	Cylinder Store	750L	Acetylene, Dissolved Hydrogen, Compressed Propane	Location unknown as not recorded on plan
13	FLC	500L	Ethanol & Turpentine Substitute	Painters Store in New Services Centre
Historical storage				
1	AST/ 2009	18,000L	Liquid Oxygen	Former Services Centre (now ED redevelopment)
1A	AST/ 2009	1,300L	Liquid Oxygen	
2	Roofed Store/ 2009	1,000L	Ethanol & Turpentine Substitute	
5.2a	Exempt – Storage Area/ 1999	15m3	Compressed oxygen	
5..2b	Cylinder Store/ 1999	24m3	Dissolved acetylene	
5.3	Cylinder Store/ 2009	467m3	Nitrous Oxide	
5.4	Cylinder Store/ 2009	464m3	Compressed nitrogen & carbon dioxide	
5.5	Cylinder Store/ 2009	45m3	Propane, dissolved acetylene & compressed hydrogen	
9	AST/ 2009	5,000L	Diesel	
10	FLC/ 2009	250L	Petrol	
Pathology	Process Location/ 2009	250L	Ethanol	Pathology – Clinical Services

3.9 Section 10.7 (2) & (5) Planning Certificates

Copies of the Section 10.7 Planning Certificates (2) and (5) were obtained for two representative lots (Lot 12 DP 800476 and Lot 2 from DP1130879) from Georges River Council and are included in **Appendix I**. The planning certificates included the following information.

- The land is zoned SP2 Infrastructure under the Kogarah LEP 2012 and Draft Georges River LEP 2020.
- The land does not include or comprise critical habitat under any environmental planning instrument.

- The land is not located within a conservation area under the provisions of Kogarah Local Environmental Plan 2012
- The land does not contain a heritage item under the provisions of Kogarah Local Environmental Plan 2012 or Draft Georges River Local Environmental Plan 2020.
- The land does not contain a state heritage item under the Heritage Act 1977.
- The land is not in an area proclaimed to be a mine subsidence district within the meaning of section 15 of the Mine Subsidence Compensation Act 1961.
- The land is not affected by road widening or road realignment under Division 2 of Part 3 of the Roads Act 1993, under the provisions of any environmental planning instrument or under any resolution of the Council.
- The Land is affected by the Kogarah Water Management Policy 2006 and Kogarah Contaminated Land Policy 2009.
- The land is not subject to development controls relating to land slip, bushfire, tidal inundation, subsidence, acid sulfate soils or any other risk (other than flooding).
- Lot 12 DP 800476 may be subject to flood related development controls.
- The land may be affected by a Council stormwater drain.
- The land is not identified as biodiversity certified land under Part 8 of the Biodiversity Conservation Act 2016;
- The land is not identified as bush fire prone land.
- The provisions of the Native Vegetation Act 2003, do not apply to the Georges River Council area.
- The land to which this certificate relates has not been identified in the Loose-Fill Asbestos Insulation Register as containing loose-fill asbestos ceiling insulation.
- The land is not subject to any matters under the CLM Act 1997.

3.10 Previous Investigations

3.10.1 Site Assessment Report / Risk Assessment Report (CH2MHill 2014⁹)

A site investigation within the broader SGH&CHS was undertaken to identify risks impacting future capital works. The assessment included a desktop review (as separately documented in CH2MHill 2014a¹⁰) and an intrusive soil investigation and groundwater monitoring program comprising 10 boreholes, soil sampling at boreholes including three additional boreholes advanced for geotechnical purposes and groundwater sampling at three monitoring wells. Five boreholes including BH401, BH405, BH508, BH509 and BH510 were located within the current site. No assessment of the subsurface below the building footprints was undertaken due to access restrictions.

As part of the site investigations, a hazardous building material survey was completed by P. Clifton and Associates Pty Ltd (P Clifton 2014) to confirm findings of existing Hazardous Material Register (Noel Arnold 2011) The following was reported in relation to buildings currently located within the current site:

- Building 6 – Prince William Wing: Bonded SMF assumed positive, non-friable asbestos assumed positive, friable asbestos positive, PCB assumed positive, lead paint and lead dust

⁹ Element 2 Site Investigation / Risk Assessment Report, Rev 4, CH2M Hill Australia Pty Ltd, 5 August 2014 (CH2MHill 2014)

¹⁰ Element 1 Desktop & Site Assessment Report / Risk Assessment Report, Rev 2, CH2M Hill Australia Pty Ltd, 21 May 2014 (CH2MHill 2014a)

negative (Noel Arnold 2011). P Clifton (2014) additionally reported that light fittings relatively new and should not contain PCB.

- Building 4 – Radiology (Burt Wing): Bonded SMF assumed positive, non-friable asbestos positive, PCB assumed positive, lead dust positive and lead paint assumed negative (Noel Arnold 2011). P Clifton (2014) additionally reported that eaves linings to the perimeter of the upper level were inaccessible and are likely to be asbestos cement sheeting.
- Building 26 - Research Institute: Bonded SMF assumed positive, asbestos assumed negative, PCB assumed negative, lead paint and lead dust assumed positive (Noel Arnold 2011). P Clifton (2014) additionally reported that no asbestos or PCB containing material was found. Based on the age of the building paint finishes should not be lead based. SMF materials in good condition. Inaccessible ceiling and wall cavities likely to contain SMF insulation.

Based on the scope of works completed the following conclusions were made by CH2MHill (2014) with regard the site conditions:

- The desktop site history review identified historical uncontrolled filling across the site, the presence of a 10,000L diesel UST and other ASTs, the use of silver and xylene recovery units, the presence of dilution tanks and hazardous construction materials within buildings.
- Intrusive soil investigations identified fill material predominantly consisting of reworked natural orange/light grey clays, brown silty or clayey sands and gravels with inclusions of brick fragments, ironstone and sandstone gravels, concrete fragments and rock fragments. Fill material was observed to depths ranging from 0.23 to 0.8 m bgs. The underlying natural soils consisted of orange or white, orange mottled clays or unconsolidated white sandstone.
- Contaminants in the soil were compared against site assessment criteria adopted from NEPC (2013) including health-based criteria for residential use with minimal access to soil and commercial/industrial criteria. All contaminant concentrations were reported below the adopted site assessment criteria with the exception of nickel and zinc reported in exceedance of ecological criteria at borehole location outside the current boundary. It was noted that the reported elevated nickel and zinc concentrations were within hardstand areas with limited ecological value.
- Groundwater at the site reported generally low concentrations of contaminants, with some heavy metal concentrations in exceedance of assessment criteria that were considered unlikely to present a significant risk to onsite or offsite receptors.
- The fill material with the exception of the stormwater easement near building 17 Banksia House which is located outside the current site boundary and natural soils were provisionally be classified as general solid waste. The area of exposed fill material at the top of the stormwater easement near Building 17 Banksia House was reported to contained asbestos fragments.
- Groundwater flow near the 10,000L diesel UST was uncertain and no conclusions were drawn regarding potential impacts to soil or groundwater immediately adjacent to the tank and beneath buildings to the east.
- Hazardous construction materials were reported to be present within a number of buildings and will require ongoing management during operations and prior to any refurbishment or demolition under the masterplan.

4. Assessment of Potential Contamination

4.1 Potential Areas of Environmental Concern Based on Current Site Conditions

Based on the history review and observations made during the JBS&G inspection of the site, areas of environmental concern have been identified and are presented in **Table 4.1**.

Table 4.1: Areas of Environmental Concern (AECs) and Contaminants of Potential Concern (COPC)

Area of Environmental Concern (AEC)	Primary Contaminants of Potential Concern (COPC)
Imported and/or reworked fill materials used to create site levels (comprising material of unknown character and/or origin)	Heavy metals (As, Cr, Cd, Cu, Pb, Hg, Ni, Zn), total recoverable hydrocarbons (TRH), benzene, toluene, ethylbenzene, xylene (BTEX), polycyclic aromatic hydrocarbons (PAHs), organochlorine pesticides (OCPs), polychlorinated biphenyls (PCBs) and asbestos
Inappropriate demolition of former site structures	Heavy metals, PCBs and asbestos
Silver recovery system within the radiology building	Silver and cyanide
Application of pesticides for maintenance of vegetated areas	Heavy Metals and OCPs
Natural material impacted as a result of migration of COPCs in overlying fill material.	Heavy Metals, PAHs, TRHs, BTEX, OCPs and PCBs
Potential off-site hydrogeologically upgradient sources of contamination (i.e., diesel UST and Kogarah Fire Station)	Heavy metals (As, Cr, Cd, Cu, Pb, Hg, Ni, Zn), TRH, volatile organic compounds (VOCs), phenol, PAHs, per- and polyfluoroalkyl substances (PFAS)

4.2 Potentially Contaminated Media

Potentially contaminated media comprise:

- Fill materials
- Underlying natural soil; and
- Groundwater

Fill material is considered a potentially impacted medium based upon the age of the site, filling of the site and demolition of former site structures. General maintenance of the vegetated areas historically present throughout the site may have used pesticides, which in addition may have resulted in contamination of the site's soils. Anthropogenic materials are commonly present in impacted fill/disturbed soil and can be used as an indication of the depth of disturbance.

As discussed in **Section 3.10**, there is potential for silver and cyanide contamination associated with the silver recovery units located on lower ground floor of the Radiology building due to leaking and historical waste disposal practices.

Where fill materials impacted with chemical based contaminants are identified, there is a potential the impact may have migrated laterally and vertically below the fill material into the underlying natural soils and groundwater given the permeability of silty/clayey sand fill profile.

4.3 Potential for Migration

Contaminants generally migrate from site AECs via a combination of windblown dusts, rainwater infiltration, groundwater migration, vapour convection/diffusion and surface water runoff. The potential for contaminants to migrate is a combination of:

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

The potential contaminants identified as part of the site history review and previous investigations are in the solid form (i.e. heavy metals, PAH, asbestos) or liquid form (TRH). Dependent upon concentrations, there is the potential for volatile and semi-volatile TRH compound impacts to occur in a vapour form.

As discussed in **Section 2**, site surface is currently predominantly sealed with asphaltic/concrete pavements and building footprints therefore, there is limited potential for migration of solid contaminants from the site via windblown dust.

Surface water is expected to primarily leave the site via local stormwater catchment system, and infiltration of water into underlying soils is possible within the minor landscaped areas within the site. Therefore, infiltration of water-soluble contaminants into the groundwater is considered be a potential offsite migration pathway.

4.4 Potential Exposure Pathways

Potential receptors of environmental impact within the site which will need to be addressed with respect to the suitability of the site for the proposed use include:

- Current and future site occupants/workers/visitors who may potentially be exposed to contaminants of concern through direct contact with impacted soils / groundwater and/or inhalation of dusts/fibres/vapours associated with impacted soils; and/or
- Excavation/construction/maintenance workers conducting activities at the site, who may potentially be exposed to contaminants of concern through direct contact with impacted soils/groundwater/vapours present within excavations and/or inhalation of dusts/fibres associated with impacted soils;
- Downgradient ecological receptors including the Scarborough Park wetlands and Botany Bay; and
- Existing and/or future users/occupants of adjoining properties should contamination be identified to be migrating from the current site.

5. Sampling and Analysis Plan

5.1 Data Quality Objectives

Data Quality Objectives (DQOs) were established for the investigation, as discussed in the following sections.

5.1.1 State the Problem

It is understood that HI require an assessment of the potential contamination risks to human health and the environment at the site, which draws conclusions regarding the suitability of the site for the proposed health services facility land use and/ or makes recommendations to enable such conclusions.

5.1.2 Identify the Decision

Based on the decision making process for assessing urban redevelopment sites in EPA (2017¹¹), the following decisions must be made:

- Were there any unacceptable risks to likely future onsite receptors?
- Were there any issues relating to the local area background soil concentrations that exceed appropriate soil criteria?
- Were there any impacts of chemical mixtures?
- Were there any aesthetic issues present at the site?
- Was there any evidence of, or potential for, migration of contaminants from the site?
- Is a site management strategy required?

5.1.3 Identify Inputs to the Decision

Inputs to the decision are:

- Review of previous site investigations;
- Observations of the current site conditions made during the current investigation;
- Physical observations and interpretation of potentially contaminated media through the collection of soil and groundwater samples;
- Development of appropriate assessment criteria for evaluation of soil and groundwater impacts based on the proposed use of the site as a health services facility;
- Field parameters as measured utilising calibrated equipment during the investigation, including assessment of soil sample headspace and physicochemical parameters of groundwater;
- Laboratory analysis of soil and groundwater samples of potentially contaminated media for COPC; and
- Confirmation that data generated by sample analysis are of an acceptable quality to allow reliable comparison to assessment criteria by assessment of quality assurance / quality control as per the data quality indicators established in **Section 5.1.6**.

5.1.4 Define the Study Boundaries

The study boundaries are limited to cadastral site boundaries as shown on **Figure 2**.

¹¹ Contaminated Land Management. Guidelines for the NSW Site Auditor Scheme (3rd Edition). NSW EPA October 2017 (EPA 2017)

The vertical extent of the soil investigation was to a maximum depth of 1.3 m bgs, the depth of the deepest soil sample collected, and 8.0 m bgs for groundwater.

Due to the project objectives, seasonality was not assessed as part of this investigation. Data are therefore representative of the timing and duration of the current investigation.

5.1.5 Develop a Decision Rule

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

Table 5.1: Summary of Decision Rules

Decision Required to be Made	Decision Rule
1. Were there any potentially unacceptable risks to onsite future receptors?	<p>a) Soil analytical data was compared against EPA endorsed criteria. Statistical analyses of the data in accordance with relevant guidance documents was undertaken, if appropriate, to facilitate the decisions. The following statistical criteria was adopted with respect to soils: Either: the reported concentrations were all below the site criteria; Or: the 95% upper confidence limit (UCL) of the average concentration for each analyte was below the adopted site criterion; no single analyte concentration exceeded 250% of the adopted site criterion; and the standard deviation of the results was less than 50% of the site criterion. If the statistical criteria stated above was satisfied, the decision was No. If the statistical criteria were not satisfied, the decision was Yes.</p> <p>b) Groundwater analytical data was compared against EPA endorsed criteria. If the reported concentrations were all below the Site Criteria, the answer to the decision was No; If analytical concentrations were in excess of the Site criteria, further consideration of potential risks would be required to establish whether the results are indicative of background conditions. If this is not the case, then the answer to the decision is Yes.</p>
2. Were there any issues relating to the local area background soil concentrations that exceed appropriate soil criteria?	<p>If surface soils concentrations exceeded background concentrations, the decision was Yes. Otherwise, the decision was No.</p>
3. Were there any chemical mixtures?	<p>Were there more than one group of contaminants present which increase the risk of harm? If there was, the decision was Yes. Otherwise, the decision was No.</p>
4. Were there any aesthetic issues?	<p>If there were any unacceptable odours or soil discolouration, or large quantities of non-hazardous inert material, the decision was Yes. Otherwise, the decision was No.</p>
5. Was there any evidence of, or potential for, migration of contaminants from the site?	<p>Were the contaminant concentrations and contaminant types expected to impact groundwater based on assessment of data against ecological investigation levels? If yes, the decision was Yes. Otherwise, the decision was No.</p>
6. Is a management strategy required?	<p>If the answer to and of Decisions 1 to 6 was Yes, then the decision is Yes. Otherwise, the decision is No</p>

5.1.6 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 appropriate indicators of data quality (DQIs used to assess quality assurance / quality control) and standard JBS&G procedures for field sampling and handling.

To assess the usability of the data prior to making decisions, the data will be assessed against pre-determined Data Quality Indicators (DQIs) established for the project as discussed below in relation

to precision, accuracy, representativeness, comparability, completeness and sensitivity (PARCCS parameters). The acceptable limit on decision error is 95% compliance with DQIs.

The DQIs and data assessment criteria are summarised in **Table 5.2**.

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

Table 5.2: Summary of Quality Assurance / Quality Control Program

Data Quality Indicators	Frequency	Data Quality Criteria
Precision		
Blind duplicates (intra laboratory)	1 / 20 samples	<50% RPD Asbestos detection or non-detection agreement with primary sample
Blind duplicates (inter laboratory)	1 / 20 samples	<50% RPD Asbestos detection or non-detection agreement with primary sample
Laboratory Duplicates	1 / 20 samples	<50% RPD
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%
Representativeness		
Sampling appropriate for media and analytes	All samples	-
Samples extracted and analysed within holding times.	-	organics (14 days), inorganics (6 months)
Trip spike	1 per sampling event	70-130% recovery
Trip blank	1 per sampling event	<LOR
Rinsate blank	1 per sampling event when non-disposable sampling equipment used/media	<LOR
Comparability		
Standard operating procedures for sample collection & handling	All Samples	All samples
Standard analytical methods used for all analyses	All Samples	All samples
Consistent field conditions, sampling staff and laboratory analysis	All Samples	All samples
Limits of reporting appropriate and consistent	All Samples	All samples
Completeness		
Sample description and COCs completed and appropriate	All Samples	All samples
Appropriate documentation	All Samples	All samples
Satisfactory frequency and result for QC samples	All QA/QC samples	-
Data from critical samples is considered valid	-	Critical samples valid
Sensitivity		
Analytical methods and limits of recovery appropriate for media and adopted site assessment criteria	All Analytes	All limits of reporting were less than the adopted site assessment criteria.

If any of the DQIs are not met, further assessment may be necessary to determine whether the non-conformance significantly affected the usefulness of the data. Corrective actions might include requesting further information from samplers and/or analytical laboratories, downgrading of the quality of the data or alternatively, re-collection of the data.

5.1.7 Optimise the Design for Obtaining Data

The site footprint is approximately 6,400 m² in size, of which approximately 2,800 m² is covered by existing hospital buildings. No intrusive investigations were able to be undertaken within building footprints as part of the DSI due to the operational nature of these buildings at the time of site investigation. On this basis, the accessible area for investigation was approximately 3,600 m². For sites of 3,600 m² in area, the Contaminated Sites: Sampling Design Guidelines (EPA 1995) recommends a minimum sampling density between 9 and 11 systematic sampling locations. On this basis, a total of 11 sampling locations (BH01-BH11) were completed as presented in **Figure 3**.

5.2 Soil Sampling Methodology

Soil sampling was generally completed via using push tube sampling using a drill rig. As a result of space constraints within the garden bed, and access limitations in using the mechanical drill rig, two boreholes (BH10 and BH11) were completed using a hand auger. Soil samples were collected generally from surface/immediately underlying the hardstand pavements, 0.3 m, 0.5 m and then at 0.5 m intervals to a maximum depth of 3 m or 0.5 m into natural materials (or prior refusal), whichever was the shallower.

Soil sampling locations are shown on **Figures 3**.

Visual inspection of excavated material was undertaken at each location for the presence of discolouration, ACM or other indications of potentially contaminated materials. Where identified, the observations were recorded on field logs, which are presented in **Appendix J**.

Disturbance of the soil sample was minimised where possible during sample collection and placement with laboratory supplied sample containers to reduce the potential for release of volatile organic contaminants. A calibrated Photo Ionisation Detector (PID) was utilised to screen for volatile organic compounds (VOCs) within the sampled material.

Soil samples destined for laboratory analysis were immediately transferred to laboratory supplied sample jars and sealed with a Teflon-lined screw closure or placed into asbestos sample bags. The sample containers were then placed in a pre-cooled insulated box for sample preservation prior to and during shipment to the testing laboratory. Preservation of the primary soil and QA/QC samples obtained during this investigation was completed in accordance with recognised protocols (NEPC 2013).

The samples were transported under standard JBS&G chain-of-custody protocols to the National Association of Testing Authority (NATA) registered laboratories, Eurofins | mgt Pty Ltd (Eurofins) and Envirolab Services Pty Ltd (Envirolab).

Not all samples collected were analysed. Selected samples were analysed in accordance with the analytical schedule (**Table 5.3**). However, all samples remain at the primary laboratory for a period of two months. This allows for future analysis to be completed in the event that further information is required to characterise site conditions, provided that proposed analytes remain within analytical holding times.

5.3 Asbestos Quantification of Accessible Fill Based Soils

Asbestos quantification sampling was conducted at each sample location in accordance with WA DoH (2009) and NEPC (2013) guidance by appropriately trained JBS&G scientist experienced in the identification of asbestos. The following method was adopted during drilling works:

- A solid flight auger with diameter of 150 mm from the drill rig was used in samples locations as per WA DoH (2009) guidance.
- At each sample location, a minimum 20 litre sample of material from each 1 m depth interval/fill profile was spread at a thickness of not more than 100 mm onto the contrasting colour material. All observable bonded ACM and FA per sample location was collected in separate sample bags (i.e., one sample bag for bonded ACM and one sample bag for FA per each 1 m interval) for weighing using an independently calibrated scale (0.01 g accuracy) to enable asbestos soil concentrations to be calculated. The approximate mass of the soil volume was calculated using a soil density of 1.64 g/cm³, which is taken as the average of the predominant fill types being clayey sand.
- At least one 500 ml sample from each interval/fill layer from each location was analysed for asbestos in accordance with AS 4964-2004: Method for the Qualitative Identification of Asbestos in Bulk Samples.

- Bonded ACM and FA collected and bagged from each depth interval was weighed in-house using a calibrated scale with an accuracy of 0.01 g and the measured weight recorded on the field bore hole logs.
- A field observation log for each sampling location was recorded, noting the presence, type and status or absence of asbestos, ground surface details (e.g., asphalt, exposed soils or grass) lithological description, moisture, volume of spoil quantified at each depth and any other observable contamination indicators such as staining, malodorous materials, ash and slag.

5.3.1 Calculation of Bonded ACM and FA Concentration

Asbestos percentage was calculated as per the formula below:

$$\% \frac{w}{w} \text{ asbestos in soil} = \% \text{ asbestos content} \times \frac{(\text{bonded ACM or FA})(\text{kg})}{\text{soil volume (L)} \times \text{soil density (kg/L)}}$$

For bonded ACM, an asbestos content of 15% was used, in accordance with enHealth (2005).

For FA, a conservative asbestos content of 100% was used.

5.4 Soil Field PID Screening

Samples collected during the JBS&G sampling event were screened on site using a photo-ionisation detector (PID) to assess the potential presence of VOCs including petroleum hydrocarbons. Samples obtained for PID screening were placed in a sealed plastic bag for a period of approximately five minutes to equilibrate, prior to a PID being attached to the bag. Readings were then monitored for a period of approximately one minute or until values stabilise and the stabilised/highest reading were recorded on the borehole logs. PID screening results were recorded on the field observation logs included as **Appendix J**. PID calibration records are included in **Appendix K**.

5.5 Groundwater Monitoring Well Installation

Monitoring wells MW01, MW02 and MW03 were installed following the advancement of BH01, BH06 and BH09 respectively. The wells were installed via drill rig utilising solid flight auger techniques to a total depth of 7.1 m bgs (MW01), 8.0 m bgs (MW02) and 7.7 m bgs (MW03).

The wells were constructed from 50 mm unplasticised polyvinyl chloride (uPVC) screen and casing, combined with a lockable cap and steel gatic cover. The screen was installed such that the encountered water level was within the screened interval, allowing for the detection of Light Non-Aqueous Phase Liquids (LNAPLs), if present.

Surrounding the uPVC screen, a graded (2mm) sand was utilised to construct a 'filter pack' which limited clogging of the screen with excess soils. Additionally, above the screened interval, a bentonite seal was installed to reduce the potential for surface water, perched water and/or liquid phase contaminants to enter the well from outside the screened interval. The steel gatic cover was installed in concrete consistent with the surrounds.

After installation, the monitoring wells were developed to remove excess silt and sediment resultant from the installation process. The wells were then allowed to settle for a week prior to sampling.

5.6 Groundwater Sampling Methodology

Each new groundwater monitoring well was gauged with an Interface Probe (IP) which can detect Non-Aqueous Phase Liquids (NAPLs). If NAPLs were present within the well, they were collected with a disposable plastic bailer.

The wells were purged with a low flow peristaltic pump, using fresh disposable High Density Polyethylene (HDPE) tubing and silicon, to remove the standing water. During removal, physicochemical parameters (pH, electrical conductivity (EC), dissolved oxygen (DO), reduction-

oxidation potential (Eh) and temperature) were monitored until stabilisation. Groundwater samples were taken after parameter stabilisation has occurred.

It is noted that slow groundwater recharge at BH06 precluded a standard purging procedure from taking place prior to sampling with samples collected using a disposable bailer. Further, inadequate volume precluded physicochemical parameters to be taken from this monitoring wells.

Collected groundwater samples were immediately filtered (as necessary) and transferred to laboratory supplied sample bottles. The sample containers were then transferred to a chilled iced box for sample preservation prior to and during shipment to the testing laboratory. A chain of custody form was completed and forwarded with the samples. Samples were analysed in accordance with the laboratory schedule (**Table 5.3**).

5.7 Decontamination

Samples were collected directly from the push tube auger or centre of the hand auger during soil sampling. The hand auger was decontaminated between sampling locations by removing excess dirt using a brush, rinsing in a mixture of phosphate-free detergent, followed by rinsing with potable water. Fresh liners were used at each location advanced via push tube. Push tube sleeves were removed from the advancement casing and laid on the ground for inspection, soil samples were collected directly from the push tube sleeve. A pair of new nitrile gloves were worn for collection of each new sample.

Groundwater samples were collected using disposable sampling equipment which was disposed of after use.

5.8 Duplicate and Triplicate Sample Preparation

At selected sample locations, sufficient soil and groundwater samples were collected to provide a primary, blind (intra-laboratory) duplicate and split (inter-laboratory) duplicate (triplicate) samples. The collected soil and groundwater samples were divided laterally into three samples with minimal disturbance to reduce the potential for loss of volatiles and placed in three clean glass jars, sample bags and sampling bottles as appropriate. Soil samples were not homogenised in order to minimise the loss of volatiles.

Each sample was labelled with primary, duplicate or triplicate sample identification before being placed in the same chilled esky for transport to the laboratory.

5.9 Laboratory Analysis

JBS&G contracted Eurofins Environment Testing (Eurofins) and Envirolab Services Pty Ltd (Envirolab) for all laboratory analysis of samples. Both laboratories are National Association of Testing Authorities (NATA) registered for the required analyses. In addition, the laboratories are required to meet JBS&G's internal QA/QC requirements. The completed analysis schedule is summarised in **Table 5.3**.

Table 5.3 Analytical Schedule

Sample Type	No. of Sampling Locations	Analyses (exc. QA/QC)
Soil	11 locations	Asbestos – 18 samples (500 mL per NEPC 2013) Heavy metals (As, Cd, Cr, Cu, Hg, Ni, Pb, Zn) – 20 samples Silver – 2 samples TRH/BTEX – 15 samples PAH – 15 samples OCPs/PCBs – 10 samples Phenols - 4 samples VOCs – 2 samples Cyanide – 2 samples Ecological parameters per NEPC 2013 – 2 samples TCLP/ASLP (leachable metals/PAHs) – 3 samples

Sample Type	No. of Sampling Locations	Analyses (exc. QA/QC)
		PFAS – 3 samples
Groundwater	3 wells	Heavy metals (As, Cd, Cr, Cu, Hg, Ni, Pb, Zn) – 3 samples TRH/VOCs – 3 samples PAH – 3 samples pH – 3 samples PFAS – 3 samples

In addition to the above analyses, for QA/QC purposes field duplicates and triplicates were analysed at a rate of 1/20 primary soil samples. A single trip spike and single trip blank accompanied each sample batch.

6. Assessment Criteria

6.1 Regulatory Guidelines

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

- *National Environment Protection (Assessment of Site Contamination) Amendment Measure 2013 (No. 1)*, National Environment Protection Council (NEPC 2013);
- *Contaminated Sites: Sampling Design Guidelines*, NSW EPA, 1995 (EPA 1995);
- *Australian and New Zealand Guidelines for Fresh and Marine Water Quality*, Australian and New Zealand Governments and Australian state and territory governments, Canberra ACT, Australia. Available at www.waterquality.gov.au/anz-guidelines (ANZG 2018);
- *Contaminated Land Management: Guidelines for the NSW Site Auditor Scheme*, 3rd Edition, NSW EPA, 2017 (EPA 2017);
- *Contaminated Sites: Guidelines for the Assessment and Management of Groundwater Contamination*, NSW DEC, March 2007 (DEC 2007);
- *National Water Quality Management Strategy – Australian Drinking Water Guidelines 6 2011*, National Health and Medical Research Council, Updated August 2018, (NHMRC 2018);
- *Guidelines for Managing Risks in Recreational Water*, NHMRC, 2008 (NHMRC 2008);
- *Contaminated Sites: Guidelines on Duty to Report Contamination under the Contaminated Land Management Act 1997*, NSW EPA, September 2015 (EPA 2015);
- *Consultants Reporting on Contaminated Land*, NSW EPA, April 2020 (EPA 2020); and
- PFAS National Environmental Management Plan Version 2.0 (NEMP 2.0), The Heads of EPAs Australia and New Zealand, January 2020 (HEPA 2020).

6.2 Soil Assessment Criteria Selection

As per the decision process for assessment of urban development site (EPA 2017), a set of health and ecological assessment thresholds derived from NEPC (2013) was used for evaluation of site contamination data collected for this assessment. The site requires assessment for ongoing health service facility land use. NEPC (2013) states that criteria for commercial/industrial land use are not appropriate for assessment of uses such as hospitals. Based on consideration of typical hospital uses, and NEPC (2013), the data has been assessed against criteria for residential with minimal access to soils land use scenarios to assess potential contamination risks for development and use as a hospital site. On this basis, NEPC (2013) Residential B land use criteria were adopted as the site assessment criteria. Aesthetics were also considered in the assessment of site suitability consistent with EPA (2017) and NEPC (2013).

The site assessment criteria are presented on **Table A** and summarised as follows:

- Health based investigation levels (HILs) for residential with minimal soil access land use (HIL B);
- Health screening levels (HSLs) for vapour intrusion for residential with minimal soil access land use, for sand soil types (HSL B);
- HSLs for direct contact for intrusive maintenance worker;
- HSLs for asbestos in soil for residential with minimal soil access land use (HSL B);

- Ecological investigation levels (EILs) for residential with minimal soil access land use, site specific;
- Ecological screening levels (ESLs) for residential with minimal soil access land use, coarse soil; and
- Management limits for TRH fractions for residential with minimal soil access land use, for coarse soil types.

Site-specific EILs for some metals were calculated consistent with NEPC (2013), using average site specific data (pH = 10.3 pH units, total organic carbon (TOC) = 0.25 %, clay percentage = 2.5% and cation exchange capacity (CEC) = 50 meq/100g), as presented in **Table A**. NEPC (2013) states that that EILs apply principally to contaminants in the top 2 m of soil at the finished surface/ground level which corresponds to the root zone and habitation zone of many species. In arid regions, where the predominant species may have greater root penetration, specific considerations may result in their application to 3 m depth.

In addition to the above, the investigation has also been undertaken with consideration to the PFAS Human Health and Ecological criteria published in the PFAS National Environmental Management Plan (NEMP 2.0) (HEPA 2020), relevant to Residential with minimal opportunities for soil access.

6.3 Waste Classification for Off-site Disposal

Waste classification will be carried out in accordance with the Waste Classification Guidelines (EPA 2014). Initially, the soils will be assessed against the special waste criteria, primarily for the presence of asbestos then, where soils are not pre-classified, comparison of initial total soil chemical analytical data will be undertaken to classify waste by chemical assessment without the TCLP testing. The following initial screening criteria will be used. Maximum values of specific contaminant concentrations (SCC) for classification without TCLP:

- Below Contaminant Threshold 1 (CT1) – General Solid Waste (GSW);
- Above CT1 and below Contaminant Threshold 2 (CT2) – Restricted Solid Waste (RSW); and
- Above CT2 – Hazardous Solid Waste.

Where soil sample analytical results indicated that contaminants are present at concentrations above either CT1 or CT2 thresholds, representative TCLP analysis may be undertaken to facilitate comparison of SCC together with leachable concentrations. Maximum values for leachable concentration and SCC when used together:

- Below SCC1 and TCLP1 – General Solid Waste (GSW);
- Above SCC1 and/or TCLP1 and below SCC2 and TCLP2 – Restricted Solid Waste (RSW); and
- Above either SCC2 and/or TCLP2 – Hazardous Solid Waste

6.4 Groundwater Investigation Levels

DEC (2007) instructs that groundwater investigation levels (GILs) be based on a consideration of groundwater's environmental values. Environmental values are defined in ANZG (2018) as "...particular values or uses of the environment that are important for a healthy ecosystem or for public benefit, health, safety or welfare which require protection from the effects of stressors".

NEPC (2013) presents six environmental values which are required to be considered in the assessment of contaminated groundwater including:

- Aquatic ecosystems;
- Aquaculture and human consumers of food;

- Agricultural water;
- Recreation and aesthetics;
- Drinking water; and
- Industrial water.

Current and projected contaminant concentrations in groundwater are required to be compared to the GILs at the points of existing and realistic future use for each relevant environmental value.

Beneficial reuse of groundwater is considered unlikely, however, as a conservative guideline, the health and aesthetics based Australian Drinking Water Guidelines (NHMRC 2018) for drinking water were adopted for the purposes of the assessment. In addition, conservative screening criteria, for the assessment of risk to construction/maintenance workers as a result of short term work involving interaction with groundwater at the site, has been adopted as 10 times the health values for Drinking Water published in (NHMRC 2018).

To assess the potential risk of contaminated groundwater migrating from the site to Scarborough Park Wetlands, reference has been made to the ANZG (2018) 95 % default trigger values for freshwater aquatic systems. To assess the potential risk of contaminated groundwater migrating from the site to Botany Bay, reference has also been made to the ANZG (2018) 95 % default trigger values for marine water aquatic systems. Where no high reliability values have been specified, low reliability and/or screening level values have been utilised for the purpose of site assessment and screening.

Groundwater analytical data for this assessment has also been compared against NEPC (2013) groundwater HSLs for vapour intrusion for low-high density residential land use for sand soils.

Tier 1 Screening Values for PFAS have been adopted from PFAS National Environmental Management Plan (NEMP 2.0) (HEPA 2020). To assess the potential risk of migration to Scarborough Park Wetlands and Botany Bay, the trigger levels for freshwater aquatic ecosystems has been adopted. It is noted that freshwater values were used to assess the potential risk of contaminated groundwater migrating from the site to Botany Bay based on guidance provided in the HEPA (2020) on use of freshwater criteria on an interim basis until final marine guideline values are developed.

Whilst beneficial reuse of groundwater is considered unlikely, health-based criteria for PFAS as identified in HEPA (2020) sourced from Health based guidance values for PFAS for use in site investigations in Australia (Australian Government Department of Health 2019) have been adopted for this assessment as a conservative guideline.

7. Quality Assurance and Quality Control

7.1 QA / QC Results

The QA/QC results for soil samples collected at the site are summarised in **Table 7.1** and discussed in **Section 7.2** below. Detailed QA/QC results are included in the laboratory reports in **Appendix L** and QA/QC summary tables in **Appendix M**.

Table 7.1: Data Quality Indicator Assessment

Data Quality Indicator	Results	DQO met?
Precision		
Soil blind duplicates (intra laboratory)	Chemical samples 0-120% RPD Asbestos non-detection agreement with primary sample Soil duplicates were analysed at a rate greater than 1 in 20 samples.	Partial ¹
Soil split duplicates (inter laboratory)	Chemical samples 0-89 % RPD Asbestos non-detection agreement with primary sample Soil duplicates were analysed at a rate greater than 1 in 20 samples.	Partial ¹
Groundwater duplicates (intra laboratory)	0-67% RPD Groundwater duplicates were analysed at a rate greater than 1 in 20 samples.	Partial ¹
Groundwater duplicates (inter laboratory)	0-67% RPD Groundwater duplicates were analysed at a rate greater than 1 in 20 samples.	Partial ¹
Laboratory Duplicates	0-55 % RPD	Partial ¹
Accuracy		
Surrogate spikes	19-198% recovery	Partial ¹
Laboratory control samples	70-150% recovery	Partial ¹
Matrix spikes	28-599% recovery	Partial ¹
Representativeness		
Samples extracted and analysed within holding times.	All primary and duplicate samples were extracted and analysed within the nominated holding times.	Yes
Trip spike	70-130 % recovery	Yes
Trip blank	<LOR	Yes
Field/Rinsate blanks	<LOR	Yes
Standard operating procedures for sample collection & handling	Field scientist used the same standard operating procedures throughout works.	Yes
Comparability		
Standard analytical methods used for all analyses	Standard analytical methods used.	Yes
Consistent field conditions, sampling staff and laboratory analysis	Standard operating procedures were conducted throughout the works. Field conditions remained the same throughout the works. The primary and secondary labs remained consistent throughout the investigation.	Yes
Limits of reporting appropriate and consistent	Limits of reporting were consistent and appropriate.	Yes
Completeness		
Soil description and COCs completed and appropriate	All bore logs, field monitoring sheets and COCs were completed appropriately.	Yes
Appropriate documentation	All appropriate field documentation is included in the Appendices.	Yes
Satisfactory frequency and result for QC samples	The QC results are considered adequate for the purposes of the investigation.	Yes
Data from critical samples	Samples were analysed at locations where potential for contamination was observed.	Yes
Sensitivity		
Analytical methods and limits of recovery appropriate for media and adopted site assessment criteria	Analytical methods and limits of recovery were considered appropriate for media and adopted site assessment criteria for all soil and groundwater analytes.	Yes

Notes:

1. See discussion of DQI exceedances in **Section 7.2**.

7.2 QA/QC Discussion

7.2.1 Precision

Soil Duplicate Samples

Intra-laboratory duplicates were analysed at a rate of 1 per 20 primary samples for heavy metals, TRH/BTEX, PAH, PCB, OCP, PFAS and asbestos, which met the DQIs for soil sampling (1 in 20). RPDs were generally within the acceptance criteria with the exception of copper (120%) between primary soil sample BH06_0.2-0.3 and intra-laboratory duplicate (QA01).

Inter-laboratory duplicates were analysed at a rate of 1 per 20 primary samples for heavy metals, TRH/BTEX, PAH, PCB, OCP, PFAS and asbestos, which met the DQIs for soil sampling (1 in 20). RPDs were within the acceptance criteria with the exception of C10-C40 (Sum of total) (67%), benzo(a)pyrene TEQ (82%) and PAHs (Sum of total) (89%) between primary soil sample BH06_0.2-0.3 and inter-laboratory duplicate (QC01). The RPDs for the intra-laboratory and inter-laboratory duplicates are presented in **Appendix M**. The elevated RPDs are considered to be the result of heterogeneity in the soil samples collected and low reported concentrations close to the laboratory LOR. The elevated RPD results are not considered to influence the outcome of the investigation. The higher duplicate result was considered during data assessment.

Groundwater Duplicate Samples

The RPDs between primary groundwater sample (BH01) and intra-laboratory duplicate (QA01) analytical results were within the acceptable limits of deviation from the DQI with the exception of the following: Perfluorooctanoic acid (PFOA) (67%) and Sum of US EPA PFAS (PFOS + PFOA) (67%).

The RPDs between primary groundwater sample (BH01) and inter-laboratory duplicate (QC01) analytical results were within the acceptable limits of deviation from the DQI with the exception of the following: Perfluorooctanoic acid (PFOA) (67%) and Sum of US EPA PFAS (PFOS + PFOA) (67%).

The RPDs for the intra-laboratory and inter-laboratory duplicates are presented in **Appendix M** and are considered to be the result of generally low total analyte concentrations, being within one order of magnitude of the laboratory's LOR. The elevated RPD results are not considered to influence the outcome of the investigation. The higher duplicate result was considered during data assessment.

Laboratory Duplicate

Laboratory duplicate soil samples were analysed by the testing laboratory at a rate greater than 1 per 20 primary soil samples. The results of analysis for the laboratory duplicate soil sample were generally within the laboratory acceptance criteria of 0-30 %, except for total organic carbon (55%). However, the laboratory reported that the elevated RPD was within the NATA accredited laboratory acceptance criteria. On this basis the DQIs for precision are considered to have been achieved for this investigation, noting that total organic carbon concentrations are not used to assess potential site contamination.

Laboratory duplicate water samples were analysed by the testing laboratory at a rate greater than 1 per 20 primary soil samples. The results of analysis for the laboratory duplicate soil sample were generally within the laboratory acceptance criteria of 0-30 %.

7.2.2 Accuracy

Soil and groundwater surrogate spikes were conducted on all samples submitted for organic constituent analysis and generally most recoveries were reported within the JBS&G acceptable range (70-130 %). A small number of surrogate recoveries in each media for PAH, VOC and PFAS were reported outside the JBS&G acceptable range but within the laboratory's acceptable range under NATA accreditation. The laboratory reported that PFAS field samples that contain surrogate

recoveries in excess of the QC limit laboratory's acceptable range where no positive PFAS results have been reported have been reviewed and no data was affected.

The laboratory reported that chromatographic interference did not allow the determination of recovery of PFAS surrogate 13C2-PFTeDA in groundwater sample BH06. It is noted that PFAS concentrations in sample BH06 were reported below the laboratory LOR or at low concentrations close to the laboratory LOR.

Laboratory control sample (LCS) recoveries were generally reported within JBS&G acceptable range (70-130 %) with the exception of N-ethylperfluoro-1-octane sulfonamide (140%), Perfluoroheptanesulfonic acid (PFHpS) (150%) and 1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) (133%) in batch 800730 and Perfluorododecanoic acid (PFDoDA) (138%), Perfluorotetradecanoic acid (PFTeDA) (141%), Perfluorohexanesulfonic acid (PFHxS) (136%) and Perfluoroheptanesulfonic acid (PFHpS) (135%) in batch 802339. However, the LCS recoveries were within the laboratory acceptance criteria.

Matrix spike recoveries were reported within JBS&G acceptable range (70-130 %) with the exception of iron (599%), pentachlorophenol (28%), 2-Cyclohexyl-4.6-dinitrophenol (53%), Perfluorooctane sulfonamide (FOSA) (132%), N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) (146%), N-thylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA) (135%), N-methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA) (135%), Perfluoroheptanesulfonic acid (PFHpS) (148%) and 1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) (146%). The matrix spike recoveries were generally within the laboratory acceptance criteria with the exception of pentachlorophenol and iron exceedance as noted above. However, the laboratory reported that an acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.

7.2.3 Representativeness

Sampling appropriate for media and analytes

All soil and groundwater sampling works completed during the investigation were conducted in accordance with JBS&G standard operating procedures.

Holding Times

The extraction and analysis of selected soil and groundwater samples was completed within the recommended holding times for all COPCs.

Trip Spike

A trip spike was submitted with each sampling event during the soil and groundwater investigation. The trip spike recoveries were within the JBS&G acceptable limit of 70%-130%.

Trip Blank

A trip blank was submitted with each sampling event during the soil and groundwater investigation. Analyte levels were all below detection limits.

PFAS Field Blanks

A PFAS field blank was submitted during the soil and groundwater investigation with analyte levels reported below detection limits.

Decontamination and Calibration

All field equipment was decontaminated and calibrated appropriately as per the procedure identified in **Section 5.2.1**.

Records of field calibration and decontamination are provided in **Appendix K**.

7.2.4 Comparability

Experienced JBS&G field scientists undertook all sampling in accordance with standard JBS&G sampling methods.

All field documentation was appropriately completed. The nominated laboratories undertook all analysis in accordance with the relevant NATA accredited methods.

7.2.5 Completeness

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

All field documentation was completed appropriately including test pit logs, COCs, daily field logs, groundwater sampling sheets and calibration and decontamination sheets (PID).

7.2.6 Sensitivity

Laboratory analysis methods for all contaminants adopted during the investigation generally used limits of reporting significantly less than the site assessment criteria to ensure the contaminant concentrations could be confidently identified as being less than the adopted site assessment criteria.

The laboratory LORs for PAH compounds, anthracene and benzo(a)pyrene in groundwater were equivalent to the site assessment criteria. However, given the absence of significant PAH contamination in soil across the site, the LORs are not considered to alter the outcome of the assessment.

7.3 QA/QC Assessment

The field sampling and handling procedures across the site produced QA/QC results which indicate that the investigation data collected is of an acceptable quality.

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

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

8. Results

8.1 Soil Observations

Soil sampling was conducted on 31 May and 1 June 2021 at the sample locations shown on **Figure 3**. Borehole logs are included in **Appendix J**. A summary of soil conditions present at the site is provided as follows. A total of nine boreholes advanced via mechanical drill rig (BH01-BH09) and two boreholes (BH10 and BH11) advanced via hand auger were used for the purposes of soil sampling.

Fill material encountered at the site primarily comprised clayey sand with a low proportion of gravels, and anthropogenic inclusions were generally not observed with the exception of glass observed at BH02 and BH11 and plastic observed at BH05 and BH06. Fill material was underlain by natural grey/brown/red clay.

No odours, staining or ACM was observed throughout the soil profile at any of the investigation locations. PID readings (1 ppm) from sampled soils indicated no significant sources of hydrocarbon/VOC contamination existing within site soils. Groundwater seepage was observed at BH01 at approximately 6 m bgs. Groundwater observations at BH06 and BH09 were not possible as water was introduced during the drilling. Further, no indicators of potential acid sulphate soils were observed during intrusive works at the site.

8.2 Soil Analytical Results

Detailed laboratory reports and chain of custody documentation are provided in **Appendix L**. Summarised soil laboratory results are presented in **Table A** and discussed in the following sections.

8.2.1 Heavy Metals

Concentrations of heavy metals in all analysed samples were reported to be below the laboratory limit of reporting (LOR) and/or less than the adopted health and ecological based site assessment criteria.

Concentrations of silver in samples selected for analysis were reported below the laboratory LOR.

8.2.2 PAHs

Individual PAH compounds in samples selected for analysis were reported at levels less than the laboratory LOR and/or the adopted health and ecological based assessment criteria.

8.2.3 TRH and BTEX

Concentrations of TRH in all analysed samples were reported below the laboratory LOR and/or less than the adopted health-based site assessment criteria.

TRH ($>C_{16} - C_{34}$) was reported in sample BH02_0.2-0.3 with a concentration of 530 mg/kg, exceeding the adopted ecological (ESL) site criterion.

Statistical analysis was undertaken for TRH ($>C_{16} - C_{34}$) data set available for all site soil, for which the maximum concentration was less than 250% of ESL criterion, the standard deviation was less than half of the ESL criterion and 95% upper confidence limit (UCL) calculation was less than ESL criterion.

As such, the ESL exceedance in sample BH02_0.2-0.3 is not considered to be statistically significant. The 95% UCL statistical analyses report is included in **Appendix N**.

Concentrations of BTEX in all analysed samples were reported below the laboratory LOR.

8.2.4 VOCs

Concentrations of VOCs in all analysed samples were reported below the laboratory LOR.

8.2.5 Phenols

Concentrations of phenols in all analysed samples were reported below the laboratory LOR.

8.2.6 Cyanide

Concentrations of cyanide in all analysed samples were reported below the laboratory LOR.

8.2.7 OCPs

Concentrations of OCPs in all analysed samples were reported to be below the laboratory LOR and/or less than the adopted health and ecological based site assessment criteria.

8.2.8 PCBs

Concentrations of PCBs in all samples selected for analysis were reported below the laboratory LOR.

8.2.9 PFAS

All PFAS concentrations in samples selected for analysis were below the laboratory LOR and/or the adopted site assessment criteria in all samples selected for analysis.

8.2.10 Asbestos

The results of the AQ field program indicates that asbestos from bonded ACM was not identified and therefore below the adopted HSL.

Laboratory analysis of selected soil samples indicated that asbestos fines, fibrous asbestos and ACM were not detected above of laboratory LOR in any of the samples analysed.

8.3 Preliminary In-Situ Waste Classification

Summarised soil analytical data for waste classification are presented in **Table B** and are discussed below. Detailed laboratory reports and chain of custody documentation are provided in **Appendix L**.

All COPC concentrations have been reported below CT1 – General Solid Waste (GSW) criteria with the exception of chromium (total) concentration marginally exceeding CT1 criterion (100 mg/kg) in samples BH10_0.5-0.6 (110 mg/kg) and BH11_0.3-0.4 (4110 mg/kg). It is noted that waste classification criteria apply to chromium in the +6 oxidation state only. Chromium (VI) concentration in both samples were reported less than the laboratory LOR.

On this basis, the preliminary classification of accessible fill material outside existing building footprints is General Solid Waste (GSW) (non-putrescible) in accordance with the EPA Waste Classification Guidelines (EPA 2014).

8.4 Groundwater Field Observations

A groundwater monitoring event (GME) sampling the newly installed wells (BH01, BH06 and BH09) was conducted on 10 June 2021. Groundwater monitoring well locations are provided on **Figure 3**. Details of depths to groundwater and other geospatial characteristics are summarised in **Table 8.1** below. A summary of groundwater conditions encountered during the GME is presented in **Tables 8.2** and **8.3** below.

Table 8.1 Groundwater Geospatial Details

Well Reference	Easting (MGA 56)	Northing (MGA 56)	Well Height (m AHD top of casing)	Depth to Groundwater (m below top of casing)	Groundwater Level (m AHD)
BH01	327495.6	6239960.6	31.05	3.725	27.325
BH06	327527.1	6240030.5	31.58	5.538	26.042
BH09	327576.0	6240041.1	30.73	5.240	25.49

MGA coordinate and AHD values were provided by a registered surveyor, with the surveyor's report provided as part of **Appendix O**. On this basis, the inferred groundwater flow is to the northeast towards Scarborough Park Wetlands and Botany Bay (**Figure 4**).

Table 8.2 Groundwater Field Physicochemical Parameters

Well Reference	Dissolved Oxygen (mg/L)	Electrical Conductivity (µS/cm)	pH (units)	Oxidation Reduction Potential (mV)	Temperature (°C)
BH01	10.1	3990	5.39	45.3	19.9
BH06	-	-	-	-	-
BH09	81.3	8	5.79	181	15.6

Review of the field parameters as presented above indicates that the groundwater is mildly acidic, prevalent under oxidising conditions and characterised as fresh (BH09) to saline (BH01).

Inadequate volumes precluded physicochemical parameters to be taken from monitoring well BH06 during the groundwater monitoring event.

Table 8.3 Groundwater Observations

Well Reference	Odour	Sheen	Turbidity	Light non-aqueous phase liquid (LNAPL)
BH01	No odour	No sheen	Minor turbidity	None observed
BH06	No odour	No sheen	Turbid	None observed
BH09	No odour	No sheen	Turbid	None observed

8.5 Groundwater Analytical Results

Detailed laboratory reports and chain of custody documentation are provided in **Appendix L**. Summarised groundwater analytical data for COPCs are presented in **Table C** and discussed in the following sections.

8.5.1 Metals

Heavy metal concentrations within the sample were all reported to be below the adopted site assessment criteria with the exception of the following:

- Cadmium concentration (0.0004 mg/L) detected in BH09 exceeding the freshwater 95% DGV (0.0002 mg/L);
- Copper concentration detected in BH01 (0.007 mg/L), BH06 (0.002 mg/L) and BH09 (0.006 mg/L) exceeding the freshwater 95% DGV (0.0014 mg/L) and marine water 95% DGV (0.0013 mg/L);
- Nickel concentration (0.026 mg/L) detected in BH01 exceeding the freshwater 95% DGV (0.011 mg/L) and drinking water criterion (0.02 mg/kg); and
- Zinc concentration detected in BH01 (0.077 mg/L), BH06 (0.028 mg/L) and BH09 (0.16 mg/L) exceeding the freshwater 95% DGV (0.008 mg/L) and marine water 95% DGV (0.015 mg/L).

8.5.2 TRH and VOC

TRH and VOC compounds were reported less than the laboratory LOR and/or the adopted site assessment criteria.

8.5.3 Polycyclic Aromatic Hydrocarbons (PAHs)

PAH compound concentrations were all reported less than the laboratory LOR and/or the adopted site assessment criteria.

8.5.4 PFAS

Individual PFAS compounds were reported in each sample and below the adopted site criteria with the exception of the sum of PFHxS and PFOS detected in BH01 (0.4 µg/L) in exceedance of drinking water criterion 0.07 of µg/L.

9. Site Characterisation

Based on the decision-making process for assessing urban redevelopment sites detailed in EPA (2017), the decisions required to be made are discussed below.

9.1 Are there any unacceptable risks to future onsite receptors?

In reference to the decision rules developed in **Section 5.1.2**, the following sections discuss potential risks posed to future on-site receptors from impacted media present at the site.

Representative samples of soil analysed for identified contaminants of concern were reviewed against established site assessment criteria. No COPCs in soil characterisation samples were reported at concentrations exceeding the adopted health based criteria.

Further, no COPCs in soil characterisation samples were reported at concentrations exceeding the adopted ecological criteria with the exception of TRH ($>C_{16} - C_{34}$) reported in sample BH02_0.2-0.3 with a concentration of 530 mg/kg, exceeding the adopted ecological (ESL) site criterion of 300 mg/kg.

Statistical analyses have been undertaken for the above exceedance and have indicated that the exceedance was not statistically significant with regard to the population data set. As such, the TRH exceedance is considered not to pose an unacceptable risk that requires management or remediation.

Comparison of analytical results with the adopted site assessment criteria has not identified the occurrence of groundwater impacts presenting a significant risk to future site users. The reported cadmium, copper, nickel and zinc concentrations are considered to most likely reflect background conditions within the hydrogeological setting of the site given that there were no elevated levels of heavy metals within soil samples collected at the site.

PFAS as the sum of PFHxS and PFOS was detected in exceedance of drinking water criterion in upgradient well BH01 located adjacent the Kogarah fire station. It is noted that drinking water criteria were adopted as a conservative guideline during the current investigation and beneficial reuse of groundwater at the site is unlikely given that the proposed development will include reticulated water supply. Therefore, the reported COPC concentrations in groundwater is not considered to represent an unacceptable risk to future on-site receptors.

9.2 Background Soil Concentrations

In-situ natural soils were sampled and analysed for heavy metals, PAHs, TRH, BTEX, OCPs and PCBs. Heavy metals concentrations were reported to be within background concentrations provided in Olszowy et. al. (1995) and were below the adopted site criteria. Other organic contaminants were detected below the laboratory LOR and/or the adopted site criteria.

9.3 Chemical Mixtures

There were no potential chemical mixtures identified during the investigation that may pose an unacceptable contamination risk at the site with respect to future site users.

9.4 Aesthetic Issues

No odours or staining associated with potential contamination were noted during the investigation works completed at the site, and no visible ACM was observed at the site surface or in soils at investigation locations. No significant anthropogenic materials were observed during the investigations within the site.

On this basis, there are no aesthetic issues that require to be addressed at the site.

9.5 Potential Migration of Contaminants

Based on the conditions encountered during the soil investigation, the lack of significant COPC concentrations in soil samples, and findings of the groundwater assessment, the potential for COPC migration to groundwater or off-site migration of contamination via surface water/groundwater is considered to be low.

9.6 Site Management Strategy

Based on the proposed land use, the scope of work completed for the site and the limitations presented in **Section 11**, the current investigation did not identify widespread contamination associated with the site or identify any impacts to current or future site users that would require specific contamination remediation or management to reduce unacceptable risks. As such, a specific site contamination management strategy for this site is not required with regard to the proposed development activities. It is noted that no intrusive investigations were able to be undertaken within building footprints as part of the DSI due to the operational nature of these buildings at the time of site investigation. Additionally, the review of previous reports has identified the potential risk of hazardous building material within buildings currently located onsite. As a result, it is recommended that characterisation sampling of soils beneath the building footprints of is conducted following demolition but before commencement of bulk excavation. If contamination is identified beneath the building footprints, there may be a requirement for a site management strategy.

10. Conclusions and Recommendations

10.1 Conclusions

Based on the scope of work and subject to the limitations in **Section 11**, the following conclusions are made:

- Consistent with the framework presented in *SEPP Resilience and Hazards 2021*, a detailed site (contamination) assessment was undertaken for the development which comprised a review of historical photography, a search of NSW EPA records, review of previous (predominantly geotechnical) reports and a site inspection. This assessment identified that the site was historically used as a residential and subsequently as a health care facility since the early 1900s.
- The review of historical site use information, previous reports, and inspection of site conditions identified potential AECs and associated COPCs, which were associated with the potential importation of fill materials from unknown origins, hazardous materials associated with historical demolition, refurbishment and construction work, a silver recovery system within the radiology building and the application of pesticides for maintenance of vegetated areas. Potential off-site hydrogeological upgradient sources of contamination identified included a 10,000 L diesel UST located to the southwest of the site and the Kogarah Fire Station located to the east of the site.
- Implementation of a DSI, including soil and groundwater sampling and laboratory analysis activities in accessible portions of the site (excluding operational building footprints) identified that concentrations of COPCs were not identified at levels posing an unacceptable risk to human receptors relating to the proposed redevelopment of the site such that remediation and/or management would be required.
- TRH (>C16 – C34) concentration in one soil sample were noted to exceed the adopted ecological screening level, however, statistical analyses for the TRH (>C16 – C34) data set have indicated that the exceedance was not statistically significant with regard to the population data set. Therefore, the exceedances are not considered to pose an unacceptable ecological risk that requires management or remediation with regard to the development proposal.
- Concentrations of cadmium, copper, nickel, and zinc reported in groundwater are considered indicative of naturally occurring background levels. PFAS compound analysis results for the sum of PFHxS and PFOS were detected in the inferred upgradient well (BH01) at concentrations exceeding conservative drinking water criterion. However, as beneficial reuse of groundwater at the site is unlikely given that the proposed development will include reticulated water supply, the reported COPC concentrations in groundwater are not considered to represent an unacceptable risk to future on-site receptors. There are no identified off-site migration issues relating to groundwater at the site.
- Based on the proposed land use, the scope of work completed for this assessment, and the limitations presented in **Section 11**, the current investigation did not identify widespread contamination associated with the site or identify any impacts to current or future site users that would require specific contamination remediation or management to reduce unacceptable risks and therefore, the site is considered suitable for the proposed development without application of a site contamination management/remedial strategy.

10.2 Recommendations

The current investigation did not identify conditions that require contamination remediation or management to reduce unacceptable risks. As such, a specific site contamination management

strategy for this site is not required with regard to the proposed development activities and the land is considered suitable in its current state for the purposes of the development without the need for remediation. To ensure any small scale issues as may be encountered during demolition and/or proposed earthworks are appropriately dealt with, the following is recommended:

- following decommissioning/demolition of the active health infrastructure, a data gap investigation be completed within the building footprints to verify conditions are consistent with those on the balance of the site.
- an Unexpected Finds Protocol (UFP) be incorporated into the site Construction Environmental Management Plan (CEMP) such that any small scale impacts, including any issues as may be encountered within the building footprints, may be appropriately identified and managed during earthworks.

11. Limitations

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

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

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

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


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

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

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

Figures



Legend
 Approximate Site Boundary



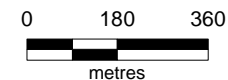
Job No: 60571

Client: Health Infrastructure

Version: R01 Rev A Date 22/06/2021

Drawn By: RH Checked By: JS

Scale 1:15,000



Coord. Sys. GDA 1994 MGA Zone 56

**St George Hospital,
Kogarah, NSW**

SITE LOCATION

FIGURE 1



Legend

- ▬ Approximate Site Boundary
- ▬ Hydro Line
- ▬ NSW Cadastre (DFSI, 2021)
- 10 kL Fuel Tank



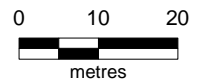
Job No: 60571

Client: Health Infrastructure

Version: R01 Rev A Date 22/06/2021

Drawn By: RH Checked By: JS

Scale 1:950



Coord. Sys. GDA 1994 MGA Zone 56

**St George Hospital,
Kogarah**

SITE LAYOUT

FIGURE 2



Legend

Approximate Site Boundary

Sample Locations

● Boreholes

● Groundwater Wells



Job No: 60571

Client: Health Infrastructure

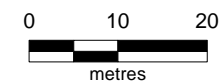
Version: R01 Rev A

Date 25/06/2021

Drawn By: RH

Checked By: JS

Scale 1:850



Coord. Sys. GDA 1994 MGA Zone 56

**St George Hospital,
Kogarah, NSW**

SAMPLING LOCATIONS

FIGURE 3



Legend

Approximate Site Boundary

Sample Locations

● Boreholes

● Groundwater Wells

— Groundwater Elevation Contours (mAHD)

➤ Inferred Groundwater Flow Direction



Job No: 60571

Client: Health Infrastructure

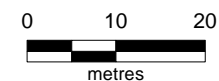
Version: R01 Rev A

Date 25/06/2021

Drawn By: RH

Checked By: JS

Scale 1:850



Coord. Sys. GDA 1994 MGA Zone 56

**St George Hospital,
Kogarah, NSW**

**GROUNDWATER ELEVATIONS
CONTOURS - JUNE 2021**

FIGURE 4

Table A – Soil Analytical Results

Data Comments
 #1 No asbestos detected at the reporting limit of 0.001% w/w.*Organic fibre detected.No trace asbestos detected.
 #2 No respirable fibres detected.
 #3 Organic fibres detected.
 #4 Nil

Data Comments
 #1 No asbestos detected at the reporting limit of 0.001% w/w.*Organic fibre detected.No trace asbestos detected.
 #2 No respirable fibres detected.
 #3 Organic fibres detected.
 #4 Nil


Data Comments
 #1 No asbestos detected at the reporting limit of 0.001% w/w.*Organic fibre detected.No trace asbestos detected.
 #2 No respirable fibres detected.
 #3 Organic fibres detected.
 #4 Nil

Data Comments
 #1 No asbestos detected at the reporting limit of 0.001% w/w.*Organic fibre detected.No trace asbestos detected.
 #2 No respirable fibres detected.
 #3 Organic fibres detected.
 #4 Nil

Table B – Waste Classification Results

Table C – Groundwater Analytical Results





	Metals & Metalloids								TPHs (NEPC 1999)					TRHs (NEPC 2013)								BTEXN											
	Arsenic (Filtered)	Cadmium (Filtered)	Chromium (III+VI) (Filtered)	Copper (Filtered)	Lead (Filtered)	Mercury (Filtered)	Nickel (Filtered)	Zinc (Filtered)	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum of Total)	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Naphthalene	Naphthalene - MAH	Acenaphthene	Acenaphthylene			
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			
EQL	0.001	0.0002	0.001	0.001	0.001	0.0001	0.001	0.005	0.02	0.05	0.1	0.1	0.1	0.02	0.05	0.1	0.1	0.1	0.02	0.05	0.001	0.001	0.001	0.001	0.002	0.003	0.0002	0.01	0.00001	0.00001			
ADWG 2018 Aesthetic				1				3														0.025	0.003			0.02							
ADWG 2018 Health	0.01	0.002		2	0.01	0.001	0.02						0.09					0.09		0.09	0.001	0.8	0.3			0.6							
ADWG 2018 Health x10	0.1	0.02		20	0.1	0.01	0.2						0.9					0.9		0.9	0.01	8	3			6							
ANZG (2018) Freshwater 95% toxicant DGVs	0.013	0.0002	0.001	0.0014	0.0034	0.0006	0.011	0.008													0.95			0.35			0.016	0.016					
ANZG (2018) Marine water 95% toxicant DGVs		0.0055	0.0044	0.0013	0.0044	0.0004	0.07	0.015													0.7						0.07	0.07					
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																																	
2-4m																			1	1	0.8	NL	NL			NL	NL	NL					
4-8m																			1	1	0.9	NL	NL			NL	NL	NL					
>8m																			1	1	0.8	NL	NL			NL	NL	NL					
PFAS NEMP 2020 Table 1 Health Drinking Water																																	
PFAS NEMP 2020 Table 1 Health Recreational Water																																	
PFAS NEMP 2020 Table 5 Freshwater 95%																																	

Field_ID	Location_Code	Sampled_Date_Time	Lab_Report_Number																														
BH01	BH01	10/06/2021	802339	<0.001	<0.0002	<0.001	0.006	<0.001	<0.0001	0.024	0.065	<0.02	<0.05	<0.1	<0.1	<0.1	<0.1	<0.02	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	-	<0.01	<0.00001	<0.00001				
BH06	BH06	10/06/2021	802339	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	<0.001	0.028	<0.02	0.05	<0.1	<0.1	<0.1	<0.1	<0.02	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	-	<0.01	<0.00001	<0.00001				
BH09	BH09	10/06/2021	802339	<0.001	0.0004	<0.001	0.006	<0.001	<0.0001	0.009	0.16	<0.02	<0.05	<0.1	<0.1	<0.1	<0.1	<0.02	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	-	<0.01	<0.00001	<0.00001				
QA01	Intra-lab duplicdate of BH01	10/06/2021	802339	<0.001	<0.0002	<0.001	0.007	<0.001	<0.0001	0.024	0.077	<0.02	<0.05	<0.1	<0.1	<0.1	<0.1	<0.02	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	-	<0.01	<0.00001	<0.00001				
QC01	Inter-lab duplicdate of BH01	10/06/2021	271478	<0.001	<0.0001	<0.001	0.007	<0.001	<0.00005	0.026	0.076	<0.01	<0.05	<0.1	<0.1	-	<0.01	<0.05	<0.1	<0.1	-	-	-	<0.001	<0.001	<0.001	<0.001	<0.002	-	<0.0002	-	<0.0001	<0.0001

Data Comments

#1 Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.

#2 To account for the bioaccumulating nature of this toxicant, it is recommended that the 99% species protection level DGV is used for slightly to moderately disturbed systems.



	PAH																						
	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene - PAH	Phenanthrene	Pyrene	PAHs (Sum of total)	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane
EQL	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	0.00001	0.00001	0.00001	0.0005	0.00001	0.0002	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.001	0.001	0.001	0.001	0.001	0.001
ADWG 2018 Aesthetic																							
ADWG 2018 Health			0.00001																				
ADWG 2018 Health x10			0.0001																				
ANZG (2018) Freshwater 95% toxicant DGVs	0.00001 ^{#2}		0.00001 ^{#2}								0.001			0.016	0.0006				0.27	0.4	6.5		
ANZG (2018) Marine water 95% toxicant DGVs	0.00001 ^{#2}		0.00001 ^{#2}								0.001			0.07	0.0006				0.27	0.4	1.9		
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																							
2-4m														NL									
4-8m														NL									
>8m														NL									
PFAS NEMP 2020 Table 1 Health Drinking Water																							
PFAS NEMP 2020 Table 1 Health Recreational Water																							
PFAS NEMP 2020 Table 5 Freshwater 95%																							

Field_ID	Location_Code	Sampled_Date_Time	Lab_Report_Number																					
BH01	BH01	10/06/2021	802339	<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	<0.001	<0.001	<0.001	<0.001	<0.001
BH06	BH06	10/06/2021	802339	<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	<0.001	<0.001	<0.001	<0.001	<0.001
BH09	BH09	10/06/2021	802339	<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	<0.001	<0.001	<0.001	<0.001	<0.001
QA01	Intra-lab duplicdate of BH01	10/06/2021	802339	<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	<0.001	<0.001	<0.001	<0.001	<0.001
QC01	Inter-lab duplicdate of BH01	10/06/2021	271478	<0.0001	<0.0001	<0.0001	<0.0005	-	<0.0002	<0.0001	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-	<0.0001	<0.0001	<0.0001	<0.001	<0.001	<0.001	<0.001

Data Comments

#1 Quantification of linear and branched isomers has been conducted as a single total response using the relati

#2 To account for the bioaccumulating nature of this toxicant, it is recommended that the 99% species protecti



	Chlorinated Alkanes												Chlorinated Alkenes												Solvents			
	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane	Trichlorofluoromethane	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride	Acetone	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)
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	0.001	0.01	0.05	0.01	0.01
ADWG 2018 Aesthetic																												
ADWG 2018 Health		0.003					0.003				0.004		0.03							0.05			0.02	0.0003	14			
ADWG 2018 Health x10		0.03					0.03				0.04		0.3							0.5			0.2	0.003	140			
ANZG (2018) Freshwater 95% toxicant DGVs		1.9	0.9	1.1			0.24				4		0.7							0.07			0.33	0.1				
ANZG (2018) Marine water 95% toxicant DGVs		1.9	0.9	1.1			0.24				4		0.7							0.07			0.33	0.1				
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																												
2-4m																												
4-8m																												
>8m																												
PFAS NEMP 2020 Table 1 Health Drinking Water																												
PFAS NEMP 2020 Table 1 Health Recreational Water																												
PFAS NEMP 2020 Table 5 Freshwater 95%																												

Field_ID	Location_Code	Sampled_Date_Time	Lab_Report_Number																											
BH01	BH01	10/06/2021	802339	-	<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	<0.15	0.02	0.04
BH06	BH06	10/06/2021	802339	-	<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	<0.15	<0.01	0.01
BH09	BH09	10/06/2021	802339	-	<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	<0.15	0.03	0.03
QA01	Intra-lab duplicdate of BH01	10/06/2021	802339	-	<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	<0.15	0.02	0.05
QC01	Inter-lab duplicdate of BH01	10/06/2021	271478	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.01	<0.01	-	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	-	0.02	<0.02	0.03

Data Comments

#1 Quantification of linear and branched isomers has been conducted as a single total response using the relati

#2 To account for the bioaccumulating nature of this toxicant, it is recommended that the 99% species protecti



		PFAS																															
		Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTriDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	Perfluoropropanesulfonic acid (PFPrS)	Perfluorobutanesulfonic acid (PFBS)	Perfluoropentanesulfonic acid (PFPeS)	Perfluorohexanesulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctanesulfonic acid (PFOS)	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 PFAS
EQL		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	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ADWG 2018 Aesthetic		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	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.05	0.1
ADWG 2018 Health			0.56																0.07		0.07							0.07					
ADWG 2018 Health x10			5.6																0.7		0.7							0.7					
ANZG (2018) Freshwater 95% toxicant DGVs																																	
ANZG (2018) Marine water 95% toxicant DGVs																																	
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																																	
2-4m																																	
4-8m																																	
>8m																																	
PFAS NEMP 2020 Table 1 Health Drinking Water			0.56																0.07		0.07							0.07					
PFAS NEMP 2020 Table 1 Health Recreational Water			10																2		2							2					
PFAS NEMP 2020 Table 5 Freshwater 95%			220																		0.13												

Field_ID	Location_Code	Sampled_Date_Time	Lab_Report_Number																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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Data Comments
#1 Quantification of linear and branched isomers has been conducted as a single total response using the relati
#2 To account for the bioaccumulating nature of this toxicant, it is recommended that the 99% species protecti



	MAH									
	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene	Total MAH	Bromobenzene
EQL	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.001
ADWG 2018 Aesthetic							0.004			
ADWG 2018 Health							0.03			
ADWG 2018 Health x10							0.3			
ANZG (2018) Freshwater 95% toxicant DGVs										
ANZG (2018) Marine water 95% toxicant DGVs										
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand										
2-4m										
4-8m										
>8m										
PFAS NEMP 2020 Table 1 Health Drinking Water										
PFAS NEMP 2020 Table 1 Health Recreational Water										
PFAS NEMP 2020 Table 5 Freshwater 95%										

Field_ID	Location_Code	Sampled_Date_Time	Lab_Report_Number										
BH01	BH01	10/06/2021	802339	<0.001	<0.001	-	-	-	-	<0.001	-	<0.003	<0.001
BH06	BH06	10/06/2021	802339	<0.001	<0.001	-	-	-	-	<0.001	-	<0.003	<0.001
BH09	BH09	10/06/2021	802339	<0.001	<0.001	-	-	-	-	<0.001	-	<0.003	<0.001
QA01	Intra-lab duplicdate of BH01	10/06/2021	802339	<0.001	<0.001	-	-	-	-	<0.001	-	<0.003	<0.001
QC01	Inter-lab duplicdate of BH01	10/06/2021	271478	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001

Data Comments
#1 Quantification of linear and branched isomers has been conducted as a single total response using the relati
#2 To account for the bioaccumulating nature of this toxicant, it is recommended that the 99% species protecti



	Miscellaneous Hydrocarbons								Chlorinated Benzenes						Trihalomethanes				Organic Sulfur Compounds	EPA VIC - IWRG621		Chlorinated Hydrocarbons
	Isopropylbenzene	1,2-dibromoethane	Bromomethane	Cyclohexane	Dibromomethane	Iodomethane	4-Methyl-2-pentanone	Methyl Ethyl Ketone	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	Carbon disulfide	Chlorinated Hydrocarbons EPAVic	Other Chlorinated Hydrocarbons EPAVic	Hexachlorobutadiene
EQL	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.001	0.001	0.001	0.005	0.005	0.001
ADWG 2018 Aesthetic											0.001	0.02	0.0003	0.01								
ADWG 2018 Health		0.001	0.001								1.5		0.04	0.3								0.0007
ADWG 2018 Health x10		0.01	0.01								15		0.4	3								0.007
ANZG (2018) Freshwater 95% toxicant DGVs									0.01	0.17	0.16	0.26	0.06									
ANZG (2018) Marine water 95% toxicant DGVs										0.08												
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																						
2-4m																						
4-8m																						
>8m																						
PFAS NEMP 2020 Table 1 Health Drinking Water																						
PFAS NEMP 2020 Table 1 Health Recreational Water																						
PFAS NEMP 2020 Table 5 Freshwater 95%																						

Field_ID	Location_Code	Sampled_Date_Time	Lab_Report_Number																				
BH01	BH01	10/06/2021	802339	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001
BH06	BH06	10/06/2021	802339	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001
BH09	BH09	10/06/2021	802339	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001
QA01	Intra-lab duplicdate of BH01	10/06/2021	802339	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001
QC01	Inter-lab duplicdate of BH01	10/06/2021	271478	<0.001	<0.001	<0.01	<0.001	<0.001	-	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Data Comments

#1 Quantification of linear and branched isomers has been conducted as a single total response using the relati

#2 To account for the bioaccumulating nature of this toxicant, it is recommended that the 99% species protecti

Appendix A Photo Log

**PHOTOGRAPH 01: MAIN CARPARK FACING BUILDING 6
(PRINCE WILLIAM WING)**



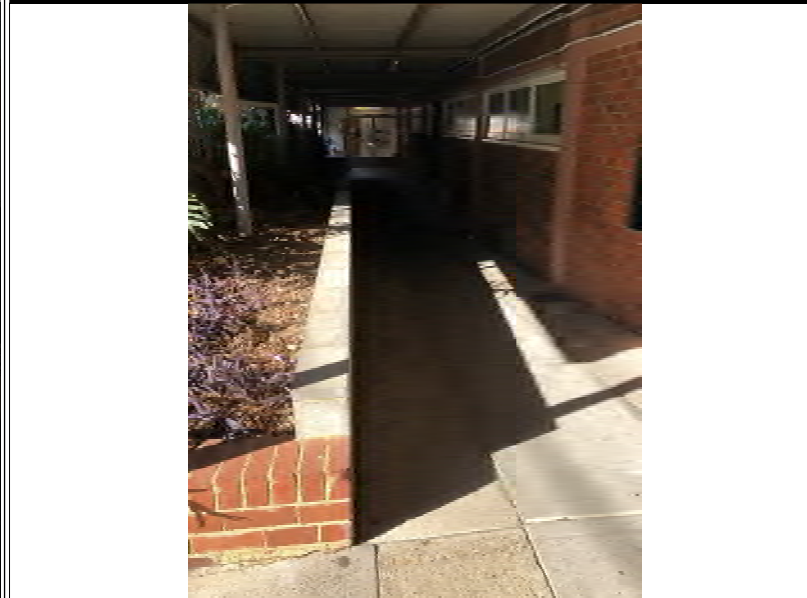
**PHOTOGRAPH 02: CORNER OF BELGRAVE STREET AND
KENSINGTON STREET FACING SOUTHEAST (NEUROLOGY
ANNEX IN FOREGROUND)**



**PHOTOGRAPH 03: RAISED GARDEN BED TO EAST OF
BUILDING 6 (PRINCE WILLIAM WING)**



**PHOTOGRAPH 04: ACCESS RAMP BETWEEN RAISED GARDEN
BED AND BUILDING 6 (PRINCE WILLIAM WING)**



Job No: 60571

Client: Health Infrastructure c/- Johnstaff

Version: R01 Rev A Date: 16 June 2021

Drawn By: SG Checked By: JR

Not to Scale

Coord. Sys n/a

**St George Hospital, Gray Street,
Kogarah, NSW**

APPENDIX A

PHOTOGRAPH 05: NORTHWESTERN EXTENT OF MAIN CAR PARK AREA FACING SOUTHEAST



PHOTOGRAPH 06: NORTHEASTERN EXTENT OF MAIN CAR PARK AREA FACING WEST



PHOTOGRAPH 07: NORTHWESTERN EXTENT OF MAIN CAR PARK AREA FACING EAST



PHOTOGRAPH 08: NORTHWESTERN EXTENT OF MAIN CAR PARK AREA FACING SOUTH



Job No: 60571

Client: Health Infrastructure c/- Johnstaff

Version: R01 Rev A

Date: 16 June 2021

Drawn By: SG

Checked By: JR

Not to Scale

Coord. Sys n/a

**St George Hospital, Gray Street,
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APPENDIX A

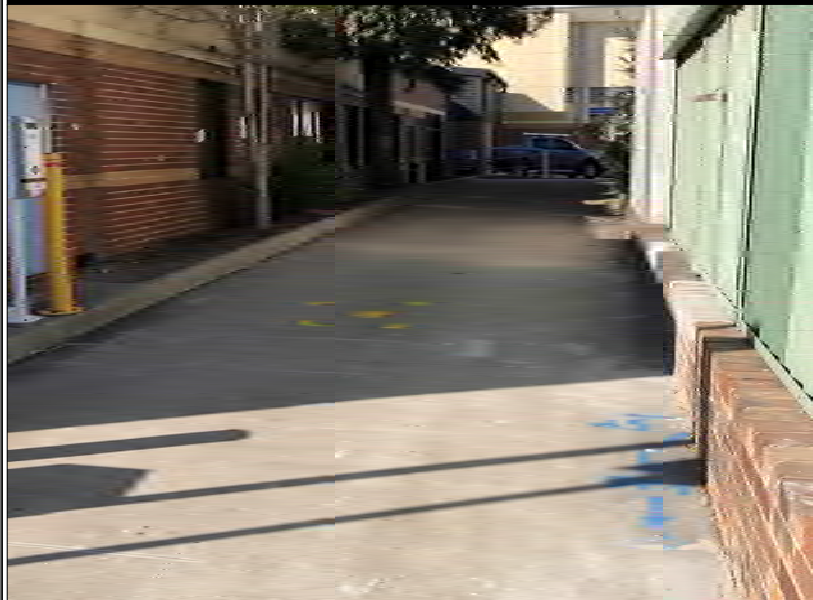
PHOTOGRAPH 09: BUILDING 4 RADIOLOGY (BURT WING) AS VISIBLE FROM KENSINGTON STREET FACING SOUTHWEST



PHOTOGRAPH 10: BUILDING 4 RADIOLOGY (BURT WING) AS VISIBLE FROM KENSINGTON STREET FACING NORTHEAST



PHOTOGRAPH 11: CONCRETE PAVED INTERNAL ACCESS ROAD PROVIDING ACCESS TO THE ASPHALT PAVED CAR PARK LOCATED TO THE SOUTH OF BUILDING 26



PHOTOGRAPH 12: DEMOUNTABLE STRUCTURES ASSOCIATED WITH BUILDING 26 (CLINICAL SKILLS CENTRE) AS VISIBLE FROM KENSINGTON STREET FACING SOUTHWEST



Job No: 60571

Client: Health Infrastructure c/- Johnstaff

Version: R01 Rev A Date: 16 June 2021

Drawn By: SG Checked By: JR

Not to Scale

Coord. Sys n/a

**St George Hospital, Gray Street,
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APPENDIX A

PHOTOGRAPH 13: DEMOUNTABLE STRUCTURES ASSOCIATED WITH BUILDING 26 (CLINICAL SKILLS CENTRE) AS VISIBLE FROM CONCRETE ACCESS ROAD FACING NORTH



PHOTOGRAPH 14: COVID 19 CLINIC IN THE



PHOTOGRAPH 15: RETAINING WALL AT EASTERN EXTENT OF CARPARK



PHOTOGRAPH 16: WASTE STORAGE AREA IN THE NORTHWESTERN PORTION OF THE CARPARK



Job No: 60571

Client: Health Infrastructure c/- Johnstaff

Version: R01 Rev A Date: 16 June 2021

Drawn By: SG Checked By: JR

Not to Scale

Coord. Sys n/a

**St George Hospital, Gray Street,
Kogarah, NSW**

APPENDIX A

PHOTOGRAPH 17: WASTE STORAGE AREA IN THE NORTHWESTERN PORTION OF THE CARPARK



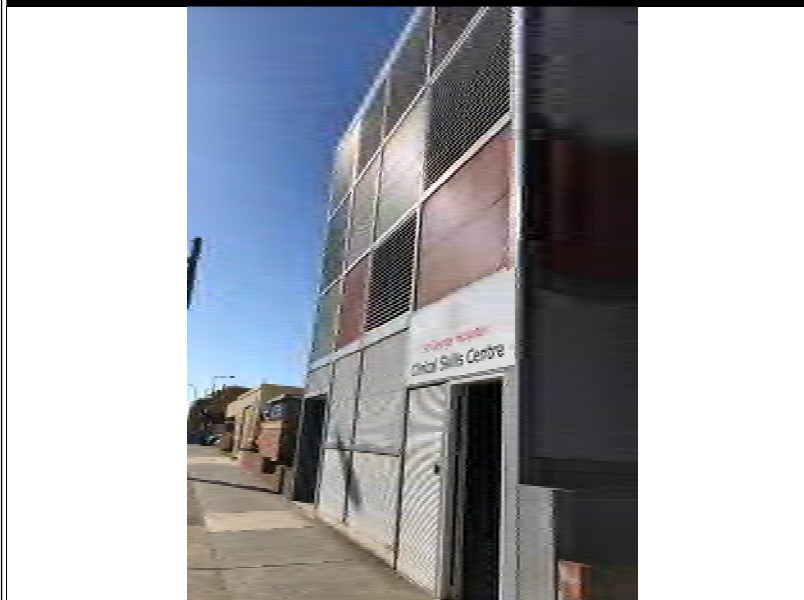
PHOTOGRAPH 18: WASTE STORAGE AREA IN THE NORTHWESTERN PORTION OF THE CARPARK



PHOTOGRAPH 19: FREEZER UNIT ASSOCIATED WITH BUILDING 26



PHOTOGRAPH 20: DEMOUNTABLE STRUCTURES ASSOCIATED WITH BUILDING 26 (CLINICAL SKILLS CENTRE) AS VISIBLE FROM KENSINGTON STREET FACING NORTHEAST



Job No: 60571

Client: Health Infrastructure c/- Johnstaff

Version: R01 Rev A Date: 16 June 2021

Drawn By: SG Checked By: JR

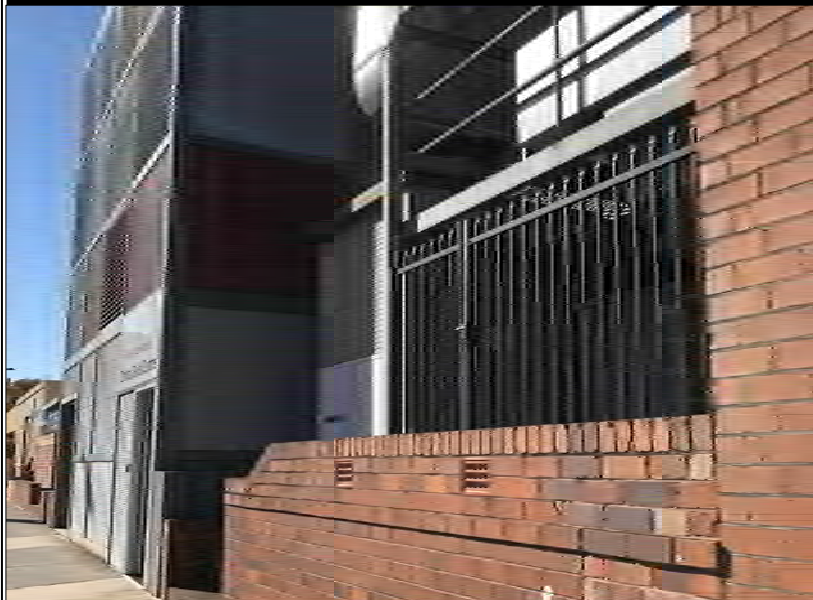
Not to Scale

Coord. Sys n/a

**St George Hospital, Gray Street,
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APPENDIX A

PHOTOGRAPH 21: RETAINING WALL IN THE NORTHWESTERN EXTENT OF BUILDING 26



PHOTOGRAPH 22: TEMPORARY SITE COMPOUND WITHIN SOUTHERN PORTION OF CARPARK



PHOTOGRAPH 23: TEMPORARY SITE COMPOUND WITHIN SOUTHERN PORTION OF CARPARK



PHOTOGRAPH 24: LOCATION OF UST AND ASSOCIATED GENERATOR LOCATED ADJACENT THE SOUTHWESTERN SITE BOUNDARY



Job No: 60571

Client: Health Infrastructure c/- Johnstaff

Version: R01 Rev A Date: 16 June 2021

Drawn By: SG Checked By: JR

Not to Scale

Coord. Sys n/a

**St George Hospital, Gray Street,
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APPENDIX A

PHOTOGRAPH 25: UST LOCATION BEYOND CURRENT SITE BOUNDARY



PHOTOGRAPH 26: UST LOCATION BEYOND CURRENT SITE BOUNDARY



PHOTOGRAPH 27: UST LOCATION BEYOND CURRENT SITE BOUNDARY



PHOTOGRAPH 28: BOREHOLE BH01 INSTALLATION



Job No: 60571

Client: Health Infrastructure c/- Johnstaff

Version: R01 Rev A Date: 16 June 2021

Drawn By: SG Checked By: JR

Not to Scale

Coord. Sys n/a

**St George Hospital, Gray Street,
Kogarah, NSW**

APPENDIX A

Appendix B Groundwater Bore Search

WaterNSW

Work Summary

GW024615

Licence: 10WA108143

Licence Status: CURRENT

Authorised Purpose(s): DOMESTIC

Intended Purpose(s): GENERAL USE

Work Type: Spear

Work Status:

Construct.Method: Pre-drilled

Owner Type: Private

Commenced Date:

Completion Date: 01/06/1966

Final Depth:

Drilled Depth: 5.50 m

Contractor Name: (None)

Driller:

Assistant Driller:

Property: N/A NSW

Standing Water Level (m):

Salinity Description:

Yield (L/s):

GWMA: 603 - SYDNEY BASIN

GW Zone: -

Site Details

Site Chosen By:

County

Form A: CUMBERLAND

Licensed: CUMBERLAND

Parish

ST GEORGE

ST GEORGE

Cadastre

99999

Whole Lot //

Region: 10 - Sydney South Coast

CMA Map: 9130-3S

River Basin: 213 - SYDNEY COAST - GEORGES RIVER

Grid Zone:

Scale:

Area/District:

Elevation: 0.00 m (A.H.D.)

Northing: 6239673.000

Latitude: 33°58'09.8"S

Elevation Source: (Unknown)

Easting: 327814.000

Longitude: 151°08'10.5"E

GS Map: -

MGA Zone: 56

Coordinate Source: GD.,PR. MAP

Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1	1	Casing	Corrugated Galvan	-0.60	4.20	101			Driven into Hole
1	1	Casing	Corrugated Galvan	-0.30	-0.30	38			

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
3.60	5.40	1.80	Unconsolidated						

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	5.48	5.48	Sand Water Supply	Sand	

Remarks

07/08/1974: SITED 40 LACHAL AVE. KOGARAH

***** End of GW024615 *****

Warning To Clients: This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.



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- [help](#)
- [contact](#)
- [customise](#)

All Groundwater Site Details

GW116347

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State Overview
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Groundwater (Telemetered data)
[favourites](#)
[search](#)

No variables data found for this site (no data in last 7 days).

Appendix C Historical Aerial Photographs



Legend  Approximate Site Boundary	
	
Job No: 60571	
Client: Health Infrastructure	
Version: Aerials	Date 16/06/2021
Drawn By: JA	Checked By:JS
Scale 1:2,000 	
	
Coord. Sys. GDA 1994 MGA Zone 56	
St George Hospital, Kogarah HISTORICAL AERIAL PHOTOGRAPH - 1930	
AERIAL 1930	



Legend

Approximate Site Boundary



Job No: 60571

Client: Health Infrastructure

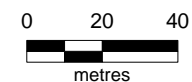
Version: Aerials

Date 16/06/2021

Drawn By: JA

Checked By:JS

Scale 1:2,000



Coord. Sys. GDA 1994 MGA Zone 56

**St George Hospital,
Kogarah**

**HISTORICAL AERIAL
PHOTOGRAPH - 1943**

AERIAL 1943



Legend
 Approximate Site Boundary



Job No: 60571

Client: Health Infrastructure

Version: Aerials

Date 16/06/2021

Drawn By: JA

Checked By:JS

Scale 1:2,000



02040



metres

Coord. Sys. GDA 1994 MGA Zone 56


**St George Hospital,
Kogarah**

**HISTORICAL AERIAL
PHOTOGRAPH - 1955**

AERIAL 1955

File Name: N:\Projects\Health Infrastructure\60571 - St George Hospital Contam and Geotech\GIS\Maps\Aerials\60571_1955_Aerial.mxd
Reference: NSW DFSI

**Legend**

 Approximate Site Boundary



Job No: 60571

Client: Health Infrastructure

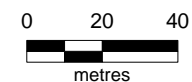
Version: Aerials

Date 16/06/2021

Drawn By: JA

Checked By:JS

Scale 1:2,000



Coord. Sys. GDA 1994 MGA Zone 56

**St George Hospital,
Kogarah**

**HISTORICAL AERIAL
PHOTOGRAPH - 1965**

AERIAL 1965



Legend

Approximate Site Boundary



Job No: 60571

Client: Health Infrastructure

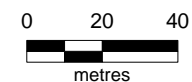
Version: Aerials

Date 16/06/2021

Drawn By: JA

Checked By:JS

Scale 1:2,000



Coord. Sys. GDA 1994 MGA Zone 56

**St George Hospital,
Kogarah**

**HISTORICAL AERIAL
PHOTOGRAPH - 1975**

AERIAL 1975



Legend  Approximate Site Boundary	
	
Job No: 60571	
Client: Health Infrastructure	
Version: Aerials	Date 16/06/2021
Drawn By: JA	Checked By:JS
Scale 1:2,000 	
	
Coord. Sys. GDA 1994 MGA Zone 56	
St George Hospital, Kogarah	
HISTORICAL AERIAL PHOTOGRAPH - 1986	
AERIAL 1986	



Legend

Approximate Site Boundary



Job No: 60571

Client: Health Infrastructure

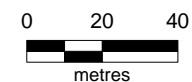
Version: Aerials

Date 16/06/2021

Drawn By: JA

Checked By:JS

Scale 1:2,000



Coord. Sys. GDA 1994 MGA Zone 56

**St George Hospital,
Kogarah**

**HISTORICAL AERIAL
PHOTOGRAPH - 1994**

AERIAL 1994



Legend

Approximate Site Boundary



Job No: 60571

Client: Health Infrastructure

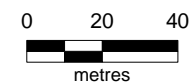
Version: Aerials

Date 16/06/2021

Drawn By: JA

Checked By:JS

Scale 1:2,000



Coord. Sys. GDA 1994 MGA Zone 56

**St George Hospital,
Kogarah**

**HISTORICAL AERIAL
PHOTOGRAPH - 2002**

AERIAL 2002



Legend
 Approximate Site Boundary

Job No: 60571
 Client: Health Infrastructure

Version: Aerials	Date 16/06/2021
Drawn By: JA	Checked By:JS

Scale 1:2,000


Coord. Sys. GDA 1994 MGA Zone 56

**St George Hospital,
Kogarah**

**HISTORICAL AERIAL
PHOTOGRAPH - 2010**

AERIAL 2010

**Legend**

 Approximate Site Boundary



Job No: 60571

Client: Health Infrastructure

Version: Aerials

Date 16/06/2021

Drawn By: JA

Checked By: JS

Scale 1:2,000



0 20 40
metres

Coord. Sys. GDA 1994 MGA Zone 56

**St George Hospital,
Kogarah**

**HISTORICAL AERIAL
PHOTOGRAPH - 2021**

AERIAL 2021

Appendix D Historical Land Titles



ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

Summary of Owners Report

Address: 14-18 Kensington Street, Kogarah

Description: - Lots 1 to 6 D.P. 1130879 (Auto Consol 6701-140) & Part Lot 12 D.P. 800476

Please Note: - A historical Title Search has not been ordered for Lots 1, 3, 4, 5 & 6 in D.P. 1130879.

As regards to the part numbered 1 on attached D.P. 209412: -

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
26.11.1908 (1908 to 1925)	Trustees under the Methodist Church Property Acts 1889-1902: William Henry Beale (Minister) Edward Pritchard (Ironworker) And Others.	Volume 1928 Folio 73 Now Volume 2862 Folio 217
10.09.1925 (1925 to 1952)	Trustees under the Methodist Church Property Acts 1889-1902: George Gilbert Olds (Picture Frame Maker) George Henry Alexander Wilson (Plumber) And Others.	Volume 2862 Folio 217
04.03.1952 (1952 to 1972)	Trustees under the Methodist Church Property Acts 1889-1902: Clarence Wilfred Thew (Railway Guard) Reginald Thompson (Postal Official) And Others.	Volume 2862 Folio 217 Now Volume 6701 Folio 140
26.06.1972 (1972 to 1986)	Methodist Church (N.S.W.) Property Trust	Volume 6701 Folio 140
17.09.1986 (1986 to Date)	# The St. George Hospital Now # Health Administration Corporation	Volume 6701 Folio 140 Now Auto Consol 6701-140

Denotes current registered proprietor

As regards to the part numbered 2 on attached D.P. 209412: -

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
25.09.1916 (1916 to 1962)	The Minister for Public Works	Volume 1928 Folio 73
20.11.1962 (1962 to Date)	# The St. George Hospital Now # Health Administration Corporation	Volume 1928 Folio 73 Then Volume 9725 Folio 214 Now 12/800476

Denotes current registered proprietor



ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

As regards to the part numbered 3 on attached D.P. 209412: -

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
15.01.1918 (1918 to 1932)	The Minister for Public Works	Volume 2816 Folio 241
27.04.1932 (1932 to 1952)	George Henry Alexander Wilson (Gentleman) Robert John Rolfe (Painter) John Thompson (Gentleman) Roy Milton Walker (Clerk) Amos Barker (Gentleman) Clarence Wilfred Thew (Railway Employee) James Lowbridge (Railway Employee) Reginald Thompson (Postal Official) Charles Ernest Austin (Gentleman) Arthur Suggate (Tramway Employee) Leslie Charles Forwood (Clerk) George Gilbert Olds (Frame Maker) Harold Joseph McLean (Machinist)	Volume 2816 Folio 241 Now Volume 4532 Folio 139
04.03.1952 (1952 to 1972)	Trustees under the Methodist Church Property Acts 1889-1902: Clarence Wilfred Thew (Railway Guard) Reginald Thompson (Postal Official) And Others.	Volume 4532 Folio 139 Now Volume 6701 Folio 140
26.06.1972 (1972 to 1986)	Methodist Church (N.S.W.) Property Trust	Volume 6701 Folio 140
17.09.1986 (1986 to Date)	# The St. George Hospital Now # Health Administration Corporation	Volume 6701 Folio 140 Now Auto Consol 6701-140

Denotes current registered proprietor

As regards to the part numbered 4 on attached D.P. 209412: -

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
15.01.1918 (1918 to 1952)	The Minister for Public Works	Volume 2816 Folio 241 Then Volume 4537 Folio 28
04.03.1952 (1952 to 1972)	Trustees under the Methodist Church Property Acts 1889-1902: Clarence Wilfred Thew (Railway Guard) Reginald Thompson (Postal Official) And Others.	Volume 4537 Folio 28 Now Volume 6701 Folio 140
26.06.1972 (1972 to 1986)	Methodist Church (N.S.W.) Property Trust	Volume 6701 Folio 140
17.09.1986 (1986 to Date)	# The St. George Hospital Now # Health Administration Corporation	Volume 6701 Folio 140 Now Auto Consol 6701-140

Denotes current registered proprietor



ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

As regards to the part numbered 5 on attached D.P. 209412: -

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
15.01.1918 (1918 to 1962)	The Minister for Public Works	Volume 2816 Folio 241 Now Volume 4537 Folio 11
20.11.1962 (1962 to Date)	# The St. George Hospital Now # Health Administration Corporation	Volume 4537 Folio 11 Then Volume 9725 Folio 214 Now 12/800476

Denotes current registered proprietor

As regards to the part numbered 7 on attached D.P. 209412: -

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
17.02.1920 (1920 to 1962)	Harry Peter Herrman (Clerk) Edmund Osmond Bradley (Mercer) (Transmission Application not investigated)	Volume 914 Folio 203 (Part)
20.11.1962 (1962 to Date)	# The St. George Hospital Now # Health Administration Corporation	Volume 914 Folio 203 Then Volume 9725 Folio 214 Now 12/800476

Denotes current registered proprietor



ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

As regards to the part numbered 8 on attached D.P. 209412: -

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
17.02.1920 (1920 to 1920)	Harry Peter Herrman (Clerk) Edmund Osmond Bradley (Mercer) (Transmission Application not investigated)	Volume 914 Folio 203 (Part)
17.02.1920 (1920 to 1955)	Bertha Varley (Widow)	Volume 914 Folio 203 Now Volume 3066 Folio 116
30.03.1955 (1955 to 1955)	Alan Kenneth Varley (Mercer) Arthur Clive Varley (Mercer) (Transmission Applications not investigated)	Volume 3066 Folio 116
30.03.1955 (1955 to 1961)	Alan Kenneth Varley (Mercer)	Volume 3066 Folio 116
21.06.1961 (1961 to 1961)	Northside Properties Pty. Limited	Volume 3066 Folio 116
24.08.1961 (1961 to Date)	# The St. George Hospital Now # Health Administration Corporation	Volume 3066 Folio 116 Then Volume 9725 Folio 214 Now 12/800476

Denotes current registered proprietor

As regards to the part numbered 8 on attached D.P. 209412: -

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
06.03.1912 (1912 to 1962)	Juliana Lewis (Married Woman)	Volume 2233 Folio 151
20.11.1962 (1962 to Date)	# The St. George Hospital Now # Health Administration Corporation	Volume 2233 Folio 151 Then Volume 9725 Folio 214 Now 12/800476

Denotes current registered proprietor

As regards to the part numbered 9 on attached D.P. 209412: -

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
25.09.1916 (1916 to 1962)	Minister for Public Works	Volume 794 Folio 33
20.11.1962 (1962 to Date)	# The St. George Hospital Now # Health Administration Corporation	Volume 794 Folio 33 Then Volume 9725 Folio 214 Now 12/800476



ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

Denotes current registered proprietor

As regards to the part numbered 10 on attached D.P. 209412: -

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
25.09.1916 (1916 to 1962)	Minister for Public Works	Volume 790 Folio 130
20.11.1962 (1962 to Date)	# The St. George Hospital Now # Health Administration Corporation	Volume 790 Folio 130 Then Volume 9725 Folio 214 Now 12/800476

Denotes current registered proprietor

As regards to the part numbered 11 on attached D.P. 209412: -

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
25.09.1916 (1916 to 1962)	Minister for Public Works	Volume 804 Folio 17
20.11.1962 (1962 to Date)	# The St. George Hospital Now # Health Administration Corporation	Volume 804 Folio 17 Then Volume 9725 Folio 214 Now 12/800476

Denotes current registered proprietor

As regards to the part numbered 12 on attached D.P. 209412: -

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
25.09.1916 (1916 to 1962)	Minister for Public Works	Volume 1032 Folio 103
20.11.1962 (1962 to Date)	# The St. George Hospital Now # Health Administration Corporation	Volume 1032 Folio 103 Then Volume 9725 Folio 214 Now 12/800476

Denotes current registered proprietor



ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

As regards to the part numbered 13 on attached D.P. 209412: -

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
06.02.1923 (1923 to 1939)	Niels Peter Nielsen (Engineer) Charles Fry (Retired Civil Servant) Herman Bustin Primrose (Solicitor)	Volume 1032 Folio 104 Now Volume 3645 Folio 25
02.05.1939 (1939 to Date)	# The St. George District Hospital Then # The St. George Hospital Now # Health Administration Corporation	Volume 3645 Folio 26 Then Volume 9725 Folio 214 Now 12/800476

Denotes current registered proprietor

As regards to the part numbered 14 on attached D.P. 209412: -

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
06.02.1923 (1924 to 1938)	Niels Peter Nielsen (Engineer) Charles Fry (Retired Civil Servant) Herman Bustin Primrose (Solicitor)	Volume 868 Folio 1
11.05.1938 (1938 to Date)	The St. George District Hospital Then # The St. George Hospital Now # Health Administration Corporation	Volume 868 Folio 1 Then Volume 9725 Folio 214 Now 12/800476

Denotes current registered proprietor

As regards to the part numbered 15 on attached D.P. 209412: -

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
06.02.1923 (1924 to 1938)	Niels Peter Nielsen (Engineer) Charles Fry (Retired Civil Servant) Herman Bustin Primrose (Solicitor)	Volume 952 Folio 166
11.05.1938 (1938 to Date)	# The St. George District Hospital Then # The St. George Hospital Now # Health Administration Corporation	Volume 952 Folio 166 Then Volume 9725 Folio 214 Now 12/800476

Denotes current registered proprietor

Continued Over.

Email: mark.groll@infotrack.com.au



ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

Leases, as regards to Auto Consol 6701-140: - NIL

Easements, as regards to Auto Consol 6701-140: - NIL

Leases, as regards to part Lot 12 D.P. 800476: -

- Various leases were found between 28.11.1994 and 18.03.2014 that since expired or surrendered. Not investigated.

Easements, as regards to part Lot 12 D.P. 800476: - NIL

Yours Sincerely,
Taylor Wilson
(Checked by Mark Groll)
23rd June 2021



Legend

- ▬ Approximate Site Boundary
- ▬ Hydro Line
- ▬ NSW Cadastre (DFSI, 2021)
- 10 kL Fuel Tank



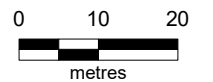
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Client: Health Infrastructure

Version: R01 Rev A Date 22/06/2021

Drawn By: RH Checked By: JS

Scale 1:950

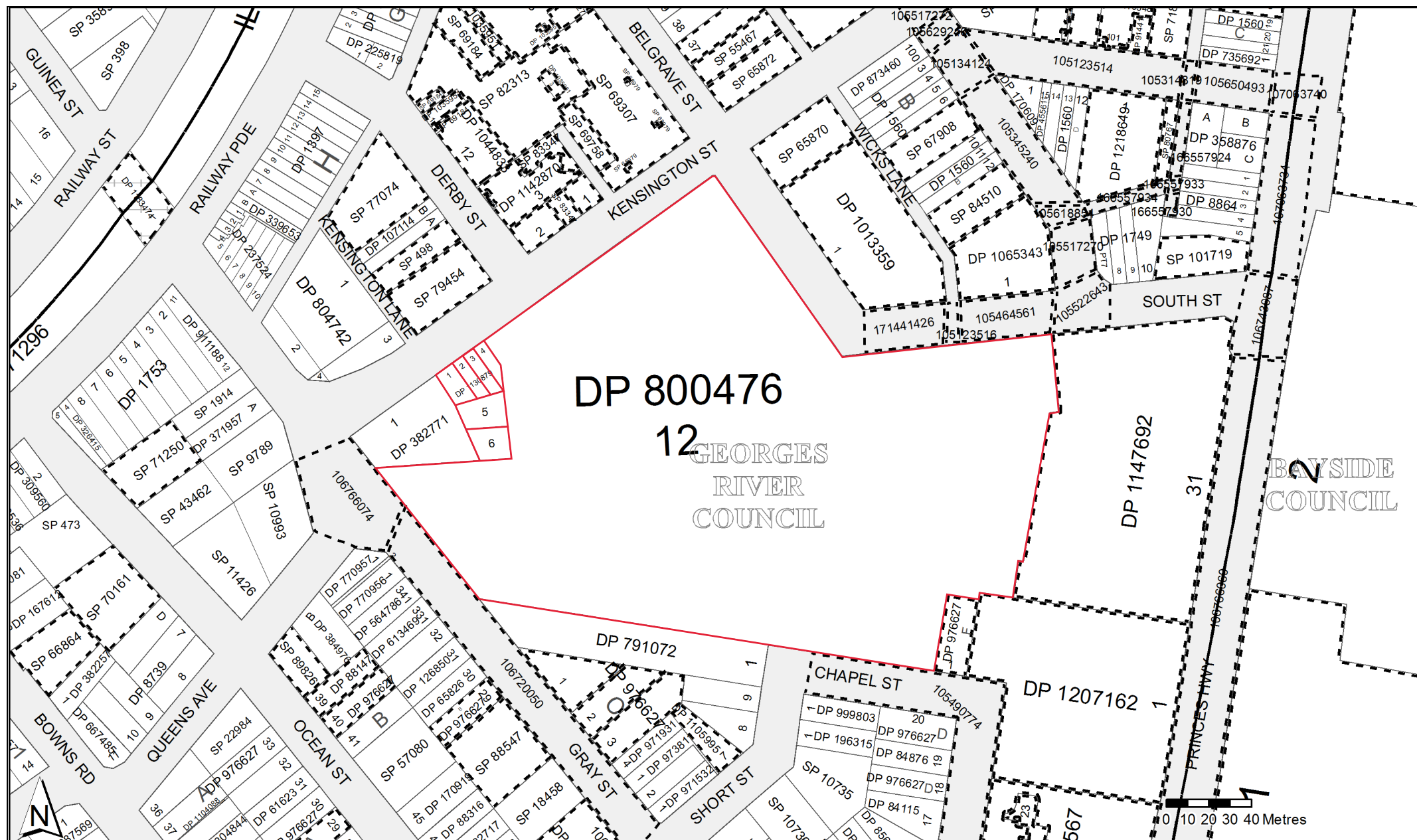


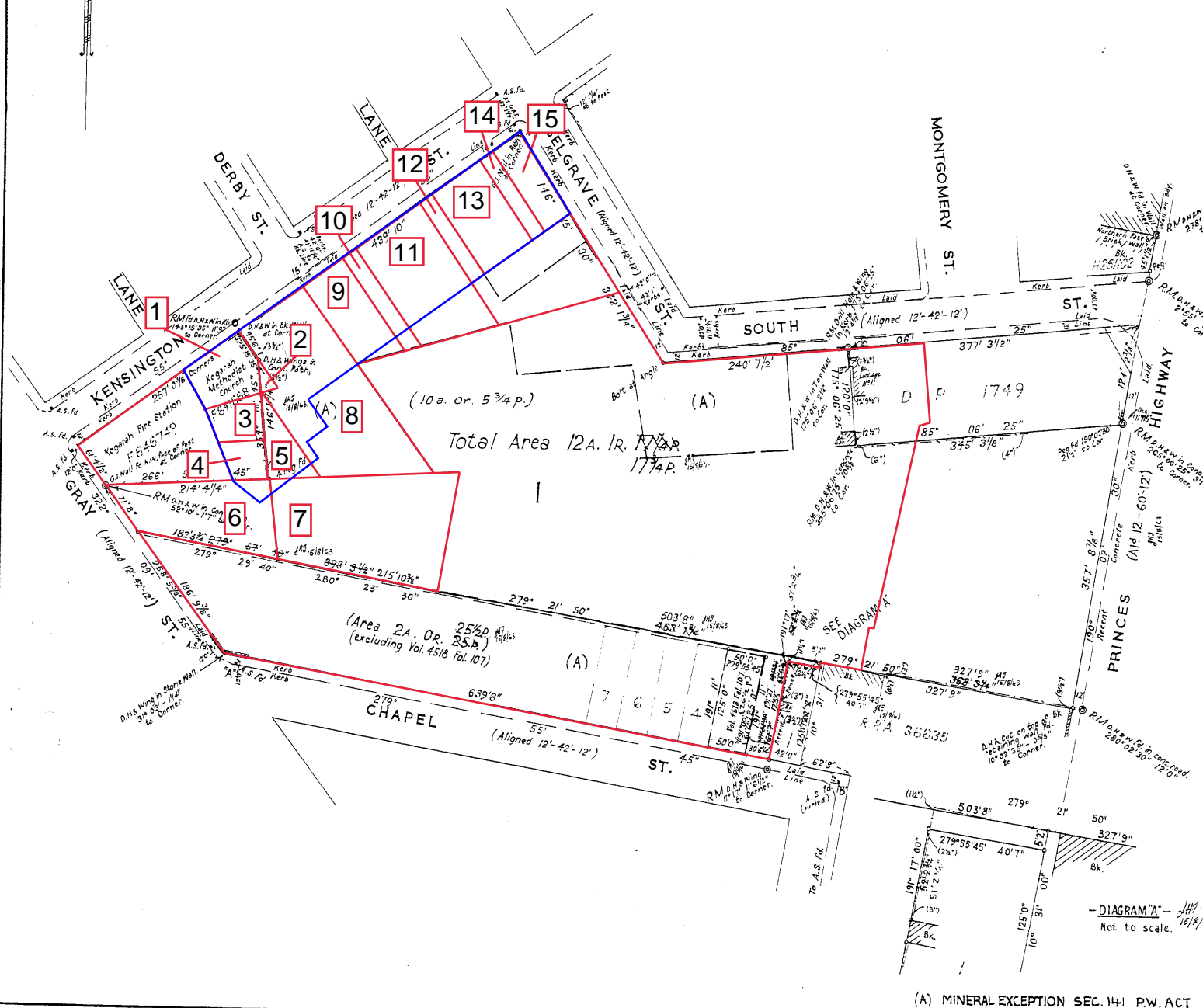
Coord. Sys. GDA 1994 MGA Zone 56

**St George Hospital,
Kogarah**

SITE LAYOUT

FIGURE 2





D. P. 209412 (E)
(Substituted Plan)

Registered: 9/4/1964
C.A.:
Title System: Old System
Subdivision: Consolidation
Purpose: (P.A. 42391 Part)
Ref. Map: Kogarah Sh.2
Last Plan: 236(L)

PLAN OF
part of Lot 2 and
Lots 4 to 20 inclusive of Sec. F
Bowen Park Estate and Reserve
of variable width together with
St. George Hospitals land
adjoining.

Scale: 100 feet to an inch

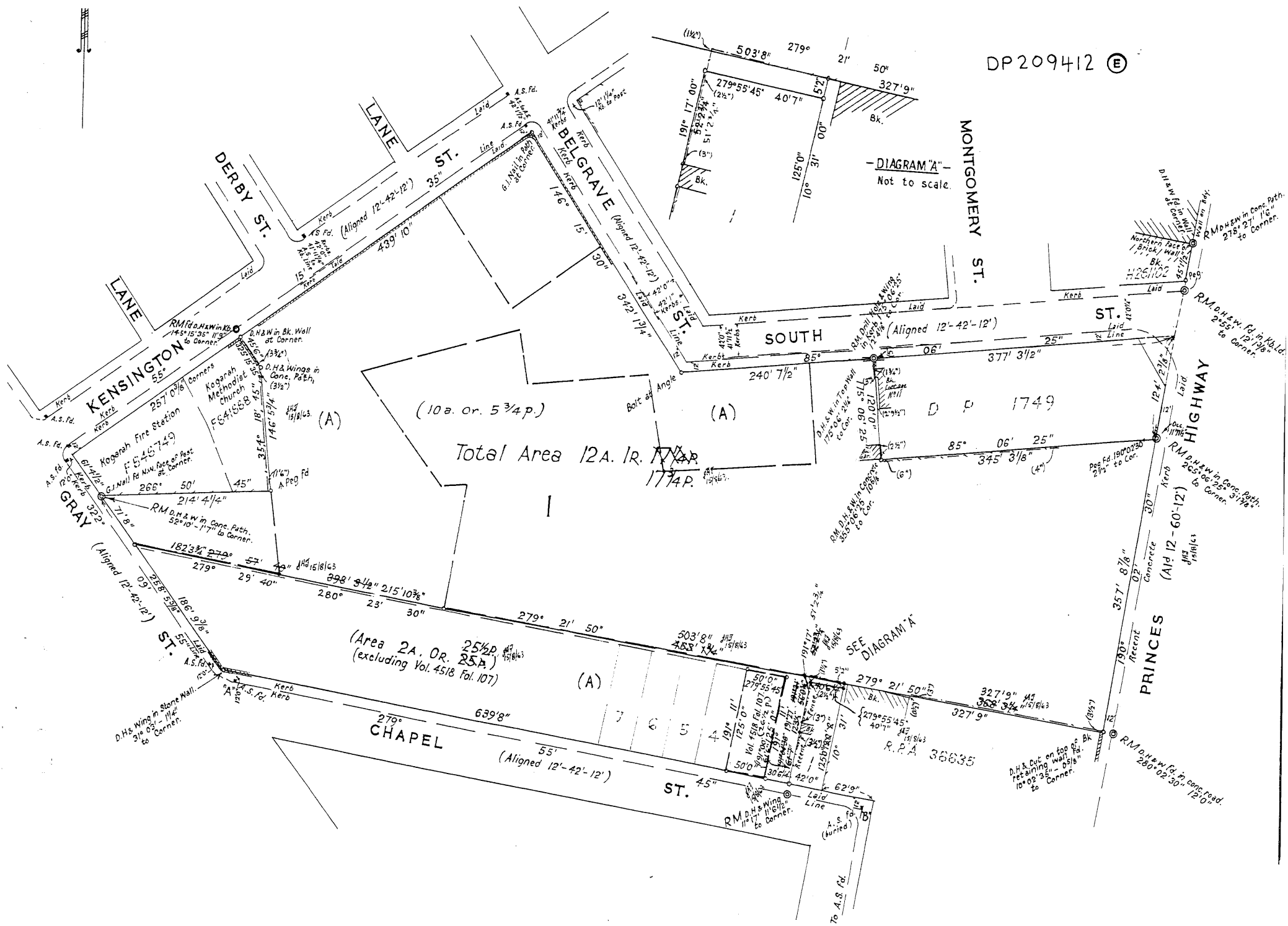
Mun./shire
City: Kogarah
Locality: Kogarah
Parish: St. George
County: Cumberland

John Henry Forshaw
of 25. Albyn Street, Bexley
a surveyor registered under the Surveyors Act, 1929, as amended,
hereby certify that the survey represented in this plan
is accurate and has been made (1) by me (2) under my
immediate supervision in accordance with the Survey Practice
Regulations, 1933, and was completed on 15/8/62.
1962
Signatures: [Signature]
Surveyor registered under Surveyors Act, 1929, as amended.
Datum Line of Azimuth: A-B.

Statements of Proposed Easements.

Approved by the Council and I hereby certify that the requirements of the Local Government Act, 1919 (other than the requirements for registration of plans), have been complied with by the applicant in relation to the proposed subdivision set out herein.

Subdivision No. Date
Council Clerk:



DP209412 (E)

-DIAGRAM "A"-
Not to scale.

SEE DIAGRAM "A"



LAND
REGISTRY
SERVICES

Historical Title



NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE

18/6/2021 2:58PM

FOLIO: 2/1130879

First Title(s): OLD SYSTEM

Prior Title(s): VOL 6701 FOL 140

Recorded	Number	Type of Instrument	C.T. Issue
2/9/2008	DP1130879	DEPOSITED PLAN	FOLIO CREATED CT NOT ISSUED
2/9/2008	AE186285	CONVERTED TO AUTO CONSOL 6701-140	CONSOL CREATED CT NOT ISSUED
24/10/2019	AP630988	DEPARTMENTAL DEALING	

*** END OF SEARCH ***

kogaraha jbs

PRINTED ON 18/6/2021

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LAND
REGISTRY
SERVICES

Historical Title



NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE

18/6/2021 3:03PM

FOLIO: AUTO CONSOL 6701-140

Recorded	Number	Type of Instrument	C.T. Issue
2/9/2008	DP1130879	DEPOSITED PLAN	
2/9/2008	AE186285	CONSOL HISTORY RECORD CREATED FOR AUTO CONSOL 6701-140	

PARCELS IN CONSOL ARE:
1-6/1130879.

3/9/2008	AE186380	DEPARTMENTAL DEALING	
24/10/2019	AP409135	REQUEST	
24/10/2019	AP631135	DEPARTMENTAL DEALING	EDITION 1

*** END OF SEARCH ***

kogaraha jbs

PRINTED ON 18/6/2021

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Received: 18/06/2021 15:03:09



FOLIO: AUTO CONSOL 6701-140

SEARCH DATE	TIME	EDITION NO	DATE
18/6/2021	2:58 PM	1	24/10/2019

LAND

LAND DESCRIBED IN SCHEDULE OF PARCELS

AT KOGARAH
LOCAL GOVERNMENT AREA GEORGES RIVER
PARISH OF ST GEORGE COUNTY OF CUMBERLAND
TITLE DIAGRAM DP1130879

FIRST SCHEDULE

HEALTH ADMINISTRATION CORPORATION

(R AP409135)

SECOND SCHEDULE (1 NOTIFICATION)

1 482926 LAND EXCLUDES MINERALS (S.134 PUBLIC WORKS ACT,
1900) WITHIN LOTS 5 & 6 IN DP1130879

NOTATIONS

UNREGISTERED DEALINGS: NIL

SCHEDULE OF PARCELS

LOTS 1-6 IN DP1130879.

*** END OF SEARCH ***

G. 2

NEW SOUTH WALES

CERTIFICATE OF TITLE

PROPERTY ACT, 1900, as amended.



09725214

Application Nos. 6161, 6381, 696,
31365 and 42391

For Prior Title see Deposited Plan



EH

Vol. 9725 Fol. 214

1st Edition issued 10-6-1964

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

Witness

S. MacLennan

CANCELLED
Registrar-General.



ESTATE AND LAND REFERRED TO

SEE AUTO FOLIO

Estate in Fee Simple in Lot 1 in Deposited Plan 209412 at Kogarah in the Municipality of Kogarah Parish of St. George and County of Cumberland, being part of Portion 25 granted to Simeon Henry Pearce and James Pearce on 10-6-1853. Excepting Thereout the mines and deposits specified in Section 134 of the Public Works Act 1900 and Section 141 of the Public Works Act 1912 as regards parts of the land above described.

J. J. J. J.
Registrar General.

FIRST SCHEDULE (continued overleaf)

THE ST. GEORGE HOSPITAL.

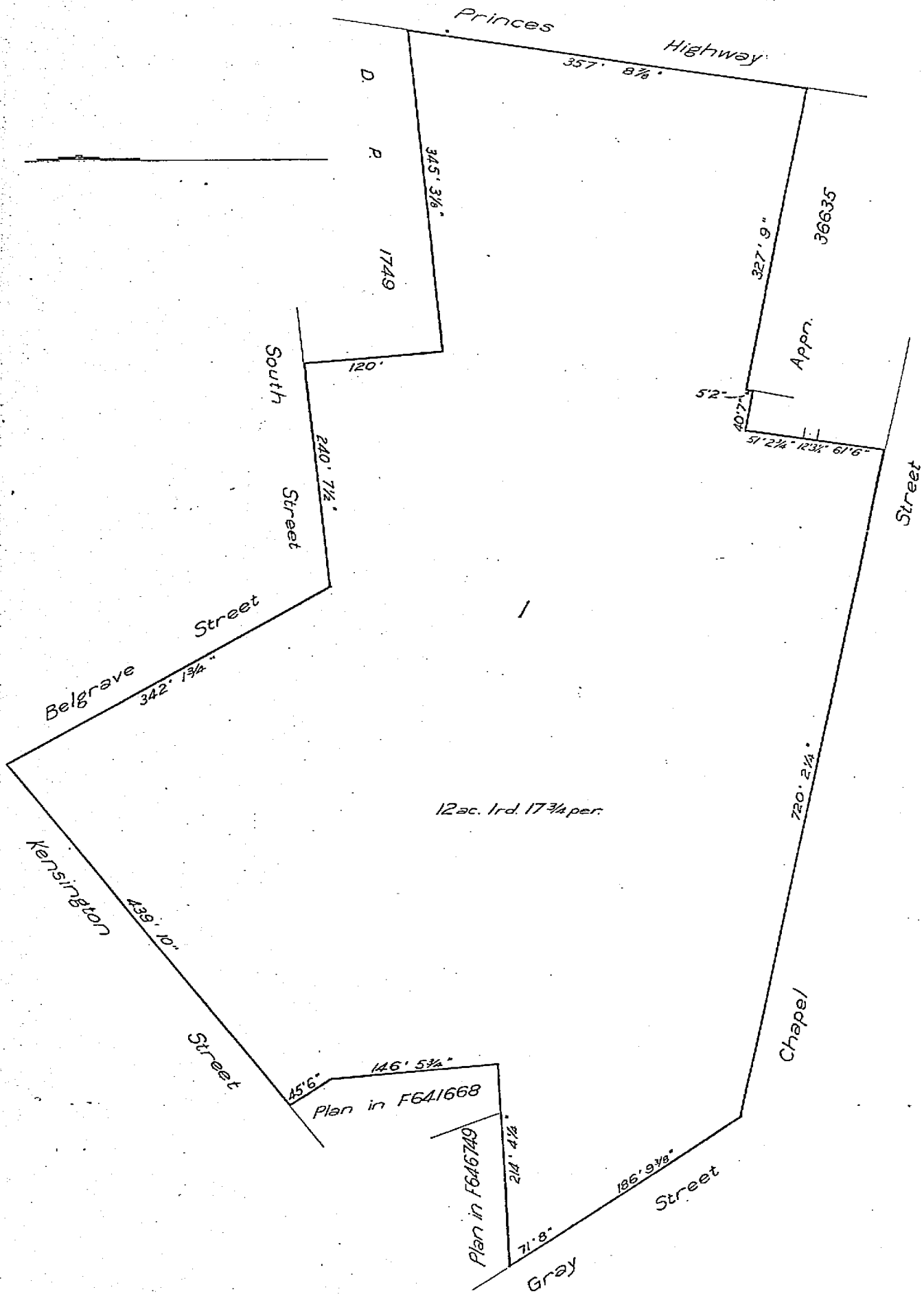
J. J. J. J.
Registrar General.

SECOND SCHEDULE (continued overleaf)

AA

1. Reservations and conditions, if any, contained in the Crown Grant(s) referred to in the said Deposited Plan as regards the parts of the land above described formerly comprised in Certificates of Title Volume 868 Folio 1, Volume 952 Folio 166, Volume 1711 Folio 79 (as regards part), Volume 2067 Folio 132, Volume 2405 Folio 20, Volume 3066 Folio 116, Volume 3645 Folios 25 and 26, Volume 4298 Folio 79, Volume 4314 Folio 155 and Volume 4518 Folio 107.

J. J. J. J.
Registrar General.



D.P. 209412

Scale: 100 feet to one inch.

U.I. 9725 Enl. 2114

FIRST SCHEDULE (continued)[illegible]**SECOND SCHEDULE (continued)**[illegible]



LAND
REGISTRY
SERVICES

Historical Title



NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE

18/6/2021 3:11PM

FOLIO: 1/209412

First Title(s): SEE PRIOR TITLE(S)

Prior Title(s): VOL 9725 FOL 214

Recorded -----	Number -----	Type of Instrument -----	C.T. Issue -----
4/6/1987		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
15/6/1988		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
20/4/1990	DP800476	DEPOSITED PLAN	FOLIO CANCELLED

*** END OF SEARCH ***

kogaraha jbs

PRINTED ON 18/6/2021

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SEARCH DATE

18/6/2021 2:58PM

FOLIO: 12/800476

First Title(s): OLD SYSTEM

Prior Title(s): 1/209412

VOL 3106 FOL 129

VOL 3214 FOL 136 VOL 3249 FOL 88

Recorded	Number	Type of Instrument	C.T. Issue
-----	-----	-----	-----
20/4/1990	DP800476	DEPOSITED PLAN	FOLIO CREATED EDITION 1
28/11/1994	U808068	LEASE	EDITION 2
2/9/1998	5239149	LEASE	EDITION 3
25/1/2001	7259873	LEASE	EDITION 4
22/5/2001	7560339	LEASE	EDITION 5
5/7/2001	7726592	LEASE	EDITION 6
26/6/2002	8717242	TRANSFER OF LEASE	
18/10/2005	AB846744	LEASE	
18/10/2005	AB846745	TRANSFER OF LEASE	EDITION 7
24/11/2005	AB938580	CHANGE OF NAME	EDITION 8
1/3/2006	AC98114	LEASE	EDITION 9
3/10/2006	AC638002	REQUEST	EDITION 10
17/1/2007	AC876601	LEASE	EDITION 11
29/8/2007	AD307925	LEASE	EDITION 12
19/10/2007	AD419500	LEASE	EDITION 13
13/8/2010	AF661096	LEASE	EDITION 14
16/11/2012	AH371629	DEPARTMENTAL DEALING	
8/3/2013	AH598721	DEPARTMENTAL DEALING	
3/4/2013	AH641233	DEPARTMENTAL DEALING	
30/4/2013	AH668277	APPLICATION TO RECORD A NEW	EDITION 15

END OF PAGE 1 - CONTINUED OVER

SEARCH DATE

18/6/2021 2:58PM

FOLIO: 12/800476

PAGE 2

Recorded -----	Number -----	Type of Instrument -----	C.T. Issue -----
30/4/2013	AH691879	REGISTERED PROPRIETOR DEPARTMENTAL DEALING	EDITION 16
18/3/2014	AI3671	LEASE	EDITION 17
24/10/2019	AP409135	REQUEST	
24/10/2019	AP631135	DEPARTMENTAL DEALING	EDITION 18

*** END OF SEARCH ***

kogaraha jbs

PRINTED ON 18/6/2021

InfoTrack an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act 1900.

Form: 11R
Release: 4.3

REQUEST
New South Wales
Real Property Act 1900



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.

(A) STAMP DUTY

If applicable. Revenue NSW use only

(B) TORRENS TITLE

See Annexure X

(C) REGISTERED DEALING

Number

Torrens Title

(D) LODGED BY

Document Collection Box

47 V

Name, Address or DX, Telephone, and Customer Account Number if any

LLPN 123012 E
H.M. Allen & Co.
DX 437 Sydney
Ph 9232 3652

Reference:

NSW HEALTH SESCHD 34

CODE

R

(E) APPLICANT

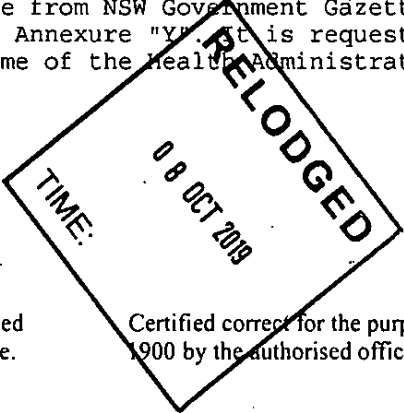
Health Administration Corporation ABN 45 100 538 161

(F) NATURE OF REQUEST

Issue of Certificates of Title

(G) TEXT OF REQUEST

The Health Administration Corporation has acquired the subject land pursuant to the Land Acquisition (Just Terms Compensation) Act 1991 and the Health Administration Act 1982. A copy of the acquisition notice from NSW Government Gazette No. 73 dated 12th July 2019 (n2019-2054) is attached at Annexure "Y". It is requested that the titles for the acquired land be issued in the name of the Health Administration Corporation.



3 SEP 2019
TIME: 3:41pm

DATE

(H) I certify that I am an eligible witness and that an authorised officer of the applicant signed this dealing in my presence. [See note* below].

Signature of witness:

Signature of authorised officer:

Name of witness:

Shane Kenyon

Address of witness:

73 Miller Street, North Sydney, NSW

Authorised officer's name:

Bryson Wilson

Authority of officer:

Delegate

Signing on behalf of:

Health Administration Corporation

(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. 1866805

Full name: Shane Kenyon

Signature:

Annexure: X to Request

Parties:
Health Administration Corporation

Text:
(B) TORRENS TITLE
Being

Lot	Section	Plan	Plan No	Vol/Folio	Auto Consol
1	5	DP	1547	12919/87	
2	5	DP	1547	12910/166	
8		DP	14676	4107/114	
1		DP	77531		
1		DP	82715		
17		DP	84115		
1		DP	85610		
1		DP	119264		
1		DP	119519		
101		DP	129490	4512/12	being whole Auto Consol 4512-12
102		DP	129490	4512/12	
B		DP	156359		
1		DP	432283		
1		DP	791072		
12		DP	800476		
51		DP	836876		
1		DP	870720		
1		DP	971532	2256/81	
4		DP	971931	2264/109	
1		DP	973811	2311/95	
2		DP	973811	2298/89	
1 C		DP	976627		being whole Auto Consol 15462-170
2 C		DP	976627		
3 C		DP	976627		
1 F		DP	976627		
8 C		DP	976627		
9 C		DP	976627	15520/3	
7		DP	1105995		
1		DP	1130879	6701/140	being whole Auto Consol 6701-140
2		DP	1130879	6701/140	
3		DP	1130879	6701/140	
4		DP	1130879	6701/140	
5		DP	1130879	6701/140	
6		DP	1130879	6701/140	



B Win

ANNEXURE 'Y'

HEALTH ADMINISTRATION ACT 1982

LAND ACQUISITION (JUST TERMS COMPENSATION) ACT 1991

NOTICE OF ACQUISITION OF LAND BY COMPULSORY PROCESS

FOR THE PURPOSES OF THE HEALTH ADMINISTRATION ACT 1982

Pursuant to section 10 of the *Health Administration Act 1982* and section 19(1) of the *Land Acquisition (Just Terms Compensation) Act 1991*, the Health Administration Corporation by its delegate declares, with the approval of the Governor, that the land described in Schedule 1 below is by this notice acquired by compulsory process for the purposes of the *Health Administration Act 1982*.

SIGNED at North Sydney this 4th day of July 2019.

B.Wilson
Manager, Assets
NSW Ministry of Health
a duly authorised delegate of the
Health Administration Corporation

SCHEDULE 1

Land

All those pieces or parcels of land described in Annexure "A" ("the Land") excluding the interests in the Land listed in Schedule 2 ("Excluded Interests").

SCHEDULE 2

Excluded Interests

All other existing interests, easements, leases, unregistered leases, covenants, caveats, rights, charges, restrictions, licences coupled with an interest, native title rights and interests, profits a prendre, mortgages and contracts in, over or in connection with the Land.

Street, Goulburn 2580					HEALTH NETWORK	
Goulburn Base Hospital Clifford Street / Goldsmith Street, Goulburn 2580	7	46	DP	758468	SOUTHERN NSW LOCAL HEALTH NETWORK	7/46/DP758468
Goulburn Base Hospital Clifford Street / Goldsmith Street, Goulburn 2580	8	46	DP	758468	SOUTHERN NSW LOCAL HEALTH NETWORK	8/46/DP758468
Goulburn Base Hospital Clifford Street / Goldsmith Street, Goulburn 2580	9	46	DP	758468	SOUTHERN NSW LOCAL HEALTH NETWORK	9/46/DP758468
Goulburn Base Hospital Clifford Street / Goldsmith Street, Goulburn 2580	10	46	DP	758468	SOUTHERN NSW LOCAL HEALTH NETWORK	10/46/DP758468
Young District Hospital, 68 Allanan Street, Young 2594	10	51	DP	759144	THE YOUNG DISTRICT HOSPITAL	10/51/DP759144
Young District Hospital, 68 Allanan Street, Young 2594	1		DP	1070392	SOUTHERN AREA HEALTH SERVICE	1/DP1070392
Young District Hospital, 68 Allanan Street, Young 2594	2		DP	1070392	GREATER SOUTHERN AREA HEALTH SERVICE	2/DP1070392
8 Dalmoral Crescent, Lake Albert 2650	152		DP	251451	HEALTH COMMISSION OF NEW SOUTH WALES	152/DP251451
Yass District Hospital Meehan Street, Yass 2582	1		DP	731402	THE YASS DISTRICT HOSPITAL	1/DP731402
St John of God Hospital Bradley Street, Goulburn 2580	2		DP	787223	THE HEALTH ADMINISTRATION CORPORATION	2/DP787223
St George Hospital, 30-38 Belgrave Street, Kogarah 2217	1		DP	77531	SOUTHERN SYDNEY AREA HEALTH SERVICE	1/DP77531
St George Hospital, 30-38 Belgrave Street, Kogarah 2217	1		DP	82715	SOUTHERN SYDNEY AREA HEALTH SERVICE	1/DP82715
St George Hospital, 30-38 Belgrave Street, Kogarah 2217	17		DP	84115	SOUTHERN SYDNEY AREA HEALTH SERVICE	17/DP84115
St George Hospital, 30-38 Belgrave Street, Kogarah 2217	1		DP	85610	SOUTHERN SYDNEY AREA HEALTH SERVICE	1/DP85610
St George Hospital, 30-38 Belgrave Street, Kogarah 2217	1		DP	791072	SOUTH EASTERN SYDNEY LOCAL HEALTH DISTRICT	1/DP791072
St George Hospital, 30-38 Belgrave Street, Kogarah 2217	12		DP	800476	SOUTH EASTERN SYDNEY LOCAL HEALTH DISTRICT	12/DP800476
St George Hospital, 30-38 Belgrave Street, Kogarah 2217	1		DP	971532	THE ST GEORGE HOSPITAL	1/DP971532

St George Hospital,30-38 Belgrave Street, Kogarah 2217	4		DP	971931	SOUTHERN SYDNEY AREA HEALTH SERVICE	4/DP971931
St George Hospital,30-38 Belgrave Street, Kogarah 2217	1		DP	973811	THE ST GEORGE HOSPITAL	1/DP973811
St George Hospital,30-38 Belgrave Street, Kogarah 2217	2		DP	973811	THE ST GEORGE HOSPITAL	2/DP973811
St George Hospital,30-38 Belgrave Street, Kogarah 2217	1	C	DP	976627	SOUTH EASTERN SYDNEY LOCAL HEALTH DISTRICT	1/C/DP976627
St George Hospital,30-38 Belgrave Street, Kogarah 2217	2	C	DP	976627	SOUTH EASTERN SYDNEY LOCAL HEALTH DISTRICT	2/C/DP976627
St George Hospital,30-38 Belgrave Street, Kogarah 2217	3	C	DP	976627	SOUTH EASTERN SYDNEY LOCAL HEALTH DISTRICT	3/C/DP976627
St George Hospital,30-38 Belgrave Street, Kogarah 2217	8	C	DP	976627	SOUTHERN SYDNEY AREA HEALTH SERVICE	8/C/DP976627
St George Hospital,30-38 Belgrave Street, Kogarah 2217	9	C	DP	976627	ST GEORGE AREA HEALTH SERVICE	9/C/DP976627
St George Hospital,30-38 Belgrave Street, Kogarah 2217	1	F	DP	976627	SOUTH EASTERN SYDNEY AND ILLAWARRA AREA HEALTH SERVICE	1/F/DP976627
St George Hospital,30-38 Belgrave Street, Kogarah 2217	7		DP	1105995	SOUTH EASTERN SYDNEY & ILLAWARRA AREA HEALTH SERVICE	7/DP1105995
St George Hospital,30-38 Belgrave Street, Kogarah 2217	1		DP	1130879	THE ST GEORGE HOSPITAL	1/DP1130879
St George Hospital,30-38 Belgrave Street, Kogarah 2217	2		DP	1130879	THE ST GEORGE HOSPITAL	2/DP1130879
St George Hospital,30-38 Belgrave Street, Kogarah 2217	3		DP	1130879	THE ST GEORGE HOSPITAL	3/DP1130879
St George Hospital,30-38 Belgrave Street, Kogarah 2217	4		DP	1130879	THE ST GEORGE HOSPITAL	4/DP1130879
St George Hospital,30-38 Belgrave Street, Kogarah 2217	5		DP	1130879	THE ST GEORGE HOSPITAL	5/DP1130879
St George Hospital,30-38 Belgrave Street, Kogarah 2217	6		DP	1130879	THE ST GEORGE HOSPITAL	6/DP1130879



FOLIO: 12/800476

SEARCH DATE	TIME	EDITION NO	DATE
18/6/2021	2:58 PM	18	24/10/2019

LAND

LOT 12 IN DEPOSITED PLAN 800476

AT KOGARAH

LOCAL GOVERNMENT AREA GEORGES RIVER

PARISH OF ST GEORGE COUNTY OF CUMBERLAND

TITLE DIAGRAM DP800476

FIRST SCHEDULE

HEALTH ADMINISTRATION CORPORATION

(R AP409135)

SECOND SCHEDULE (4 NOTIFICATIONS)

- 1 LAND EXCLUDES MINERALS (S.134 PUBLIC WORKS ACT, 1900) AS REGARDS THE PART WITHIN 1/209412
- 2 LAND EXCLUDES MINERALS (S.141 PUBLIC WORKS ACT, 1912) AS REGARDS THE PART WITHIN 1/209412
- 3 DP800476 RESTRICTION(S) ON THE USE OF LAND
- 4 EASEMENT(S) APPURTENANT TO THE LAND ABOVE DESCRIBED CREATED BY:
DP800476 -FOR SERVICES AND TO DRAIN WATER 3 WIDE

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

kogaraha jbs

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Appendix E EPA Searches

[Home](#) [Public registers](#) [Contaminated land record of notices](#)

Search results

Your search for: Suburb: KOGARAH

did not find any records in our database.

If a site does not appear on the record it may still be affected by contamination. For example:

- Contamination may be present but the site has not been regulated by the EPA under the Contaminated Land Management Act 1997 or the Environmentally Hazardous Chemicals Act 1985.
- The EPA may be regulating contamination at the site through a licence or notice under the Protection of the Environment Operations Act 1997 (POEO Act).
- Contamination at the site may be being managed under the [planning process](#).

More information about particular sites may be available from:

- The [POEO public register](#)
- The appropriate planning authority: for example, on a planning certificate issued by the local council under [section 149 of the Environmental Planning and Assessment Act](#).

See [What's in the record and What's not in the record](#).

If you want to know whether a specific site has been the subject of notices issued by the EPA under the CLM Act, we suggest that you search by Local Government Area only and carefully review the sites that are listed.

This public record provides information about sites regulated by the EPA under the Contaminated Land Management Act 1997, including sites currently and previously regulated under the Environmentally Hazardous Chemicals Act 1985. Your inquiry using the above search criteria has not matched any record of current or former regulation. You should consider searching again using different criteria. The fact that a site does not appear on the record does not necessarily mean that it is not affected by contamination. The site may have been notified to the EPA but not yet assessed, or contamination may be present but the site is not yet being regulated by the EPA. Further information about particular sites may be available from the appropriate planning authority, for example, on a planning certificate issued by the local council under section 149 of the Environmental Planning and Assessment Act. In addition the EPA may be regulating contamination at the site through a licence under the Protection of the Environment Operations Act 1997. You may wish to search the POEO public register: [POEO public register](#)

17 June 2021

For business and industry ^

For local government ^

Contact us

131 555 (tel:131555)

Online (<https://yoursay.epa.nsw.gov.au/epa-website-feedback>)

info@epa.nsw.gov.au (<mailto:info@epa.nsw.gov.au>)

EPA Office Locations (<https://www.epa.nsw.gov.au/about-us/contact-us/locations>)

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(<https://www.epa.nsw.gov.au>)



Find us on

[Home](#) [Public registers](#) [POEO Public Register](#) [Licences, applications and notices search](#)

Search results

Your search for: **General Search** with the following criteria

Suburb - kogarah

returned 13 results

[Export to excel](#)

1 of 1 Pages

[Search Again](#)

Number	Name	Location	Type	Status	Issued date
1018735	AME PROPERTIES PTY LTD	1 SOUTH STREET, KOGARAH, NSW 2217	s.58 Licence Variation	Issued	22 Oct 2002
3085781115	ANTHONY GALANOS	3 Railway Lands , KOGARAH, NSW 2217	Penalty Notice	Issued	11 Jan 2017
11751	CALVARY HEALTH CARE SYDNEY LIMITED	91 ROCKY POINT ROAD, KOGARAH, NSW 2217	POEO licence	No longer in force	19 Sep 2002
1048154	CALVARY HEALTH CARE SYDNEY LIMITED	91 ROCKY POINT ROAD, KOGARAH, NSW 2217	s.58 Licence Variation	Issued	26 May 2005
6386	HCOA OPERATIONS (AUSTRALIA) PTY LIMITED	1 SOUTH STREET, KOGARAH, NSW 2217	POEO licence	No longer in force	28 Apr 2000
1044661	HCOA OPERATIONS (AUSTRALIA) PTY LIMITED	1 SOUTH STREET, KOGARAH, NSW 2217	s.58 Licence Variation	Issued	18 Feb 2005
1066125	HCOA OPERATIONS (AUSTRALIA) PTY LIMITED	1 SOUTH STREET, KOGARAH, NSW 2217	s.58 Licence Variation	Issued	16 Oct 2006
1066826	HCOA OPERATIONS (AUSTRALIA) PTY LIMITED	1 SOUTH STREET, KOGARAH, NSW 2217	s.58 Licence Variation	Issued	03 Nov 2006
10226	PATHOLOGY SERVICES PTY LIMITED	79 Princes Highway, KOGARAH, NSW 2217	POEO licence	Surrendered	23 Dec 1999
1019670	PATHOLOGY SERVICES PTY LIMITED	79 Princes Highway, KOGARAH, NSW 2217	s.80 Surrender of a Licence	Issued	22 Aug 2002
6547	SOUTH EASTERN SYDNEY AND ILLAWARRA AREA HEALTH SERVICE	GRAY STREET, KOGARAH, NSW 2217	POEO licence	No longer in force	29 Aug 2000
1018718	SOUTH EASTERN SYDNEY AND ILLAWARRA AREA HEALTH SERVICE	GRAY STREET, KOGARAH, NSW 2217	s.58 Licence Variation	Issued	22 Oct 2002
1044557	SOUTH EASTERN SYDNEY AND ILLAWARRA AREA HEALTH SERVICE	GRAY STREET, KOGARAH, NSW 2217	s.58 Licence Variation	Issued	10 May 2005

For business and industry ^

For local government ^

Contact us

17 June 2021

131 555 (tel:131555)

Online (<https://yoursay.epa.nsw.gov.au/epa-website-feedback>)

info@epa.nsw.gov.au (<mailto:info@epa.nsw.gov.au>)

EPA Office Locations (<https://www.epa.nsw.gov.au/about-us/contact-us/locations>)

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Background

A strategy to systematically prioritise, assess and respond to notifications under Section 60 of the *Contaminated Land Management Act 1997* (CLM Act) has been developed by the EPA. This strategy acknowledges the EPA's obligations to make information available to the public under *Government Information (Public Access) Act 2009*.

When a site is notified to the EPA, it may be accompanied by detailed site reports where the owner has been proactive in addressing the contamination and its source. However, often there is minimal information on the nature or extent of the contamination.

After receiving a report, the first step is to confirm that the report does not relate to a pollution incident. The Protection of the Environment Operations Act 1997 (POEO Act) deals with pollution incidents, waste stockpiling or dumping. The EPA also has an incident management process to manage significant incidents (<https://www.epa.nsw.gov.au/reporting-and-incidents/incident-management>).

In many cases, the information indicates the contamination is securely immobilised within the site, such as under a building or carpark, and is not currently causing any significant risks for the community or environment. Such sites may still need to be cleaned up, but this can be done in conjunction with any subsequent building or redevelopment of the land. These sites do not require intervention under the CLM Act, and are dealt with through the planning and development consent process. In these cases, the EPA informs the local council or other planning authority, so that the information can be recorded and considered at the appropriate time (<https://www.epa.nsw.gov.au/your-environment/contaminated-land/managing-contaminated-land/role-of-planning-authorities>).

Where indications are that the contamination could cause actual harm to the environment or an unacceptable offsite impact (i.e. the land is 'significantly contaminated'), the EPA would apply the regulatory provisions of the CLM Act to have the responsible polluter and/or landowner investigate and remediate the site. If the reported contamination could present an immediate or long-term threat to human health NSW Health will be consulted. SafeWork NSW and Water NSW can also be consulted if there appear to be occupational health and safety risks or an impact on groundwater quality.

As such, the sites notified to the EPA and presented in the list of contaminated sites notified to the EPA are at various stages of the assessment and remediation process. Understanding the nature of the underlying contamination, its implications and implementing a remediation program where required, can take a considerable period of time. The list provides an indication, in relation to each nominated site, as to the management status of that particular site. Further detailed information may be available from the EPA or the person who notified the site.

The following questions and answers may assist those interested in this issue.

Frequently asked questions

Why does my land appear on the list of notified sites?

Your land may appear on the list because:

- the site owner and/or the polluter has notified the EPA under section 60 of the CLM Act
- the EPA has been notified via other means and is satisfied that the site is or was contaminated.

If a site is on the list, it does not necessarily mean the contamination is significant enough to regulate under the CLM Act.

Does the list contain all contaminated sites in NSW?

No. The list only contains contaminated sites that EPA is aware of. If a site is not on the list, it does not necessarily mean the site is not contaminated.

The EPA relies on responsible parties and the public to notify contaminated sites.

How are notified contaminated sites managed by the EPA?

There are different ways the EPA can manage notified contaminated sites. Options include:

- regulation under the CLM Act, POEO Act, or both
- notifying the relevant planning authority for management under the planning and development process
- managing the site under the Protection of the Environment Operation (Underground Petroleum Storage Systems) Regulation 2014.

There are specific cases where contamination is managed under a tailored program operated by another agency (for example, the Resources & Geoscience's Legacy Mines Program).

What should I do if I am a potential buyer of a site that appears on the list?

You should seek advice from the seller to understand the contamination issue. You may need to seek independent contamination or legal advice.

The information provided in the list is indicative only and a starting point for your own assessment. Land contamination from past site uses is common, mainly in urban environments. If the site is properly remediated or managed, it may not affect the intended future use of the site.

Who can I contact if I need more information about a site?

You can contact the Environment Line at any time by calling 131 555 or by emailing info@environment.nsw.gov.au.

List of NSW Contaminated Sites Notified to the EPA

Disclaimer

The EPA has taken all reasonable care to ensure that the information in the list of contaminated sites notified to the EPA (the list) is complete and correct. The EPA does not, however, warrant or represent that the list is free from errors or omissions or that it is exhaustive.

The EPA may, without notice, change any or all of the information in the list at any time.

You should obtain independent advice before you make any decision based on the information in the list.

The list is made available on the understanding that the EPA, its servants and agents, to the extent permitted by law, accept no responsibility for any damage, cost, loss or expense incurred by you as a result of:

1. any information in the list; or
2. any error, omission or misrepresentation in the list; or
3. any malfunction or failure to function of the list;
4. without limiting (2) or (3) above, any delay, failure or error in recording, displaying or updating information.

Site Status	Explanation
Under assessment	The contamination is being assessed by the EPA to determine whether regulation is required. The EPA may require further information to complete the assessment. For example, the completion of management actions regulated under the planning process or <i>Protection of the Environment Operations Act 1997</i> .
Under Preliminary Investigation Order	The EPA has issued a Preliminary Investigation Order under s10 of the <i>Contaminated Land Management Act 1997</i> , to obtain additional information needed to complete the assessment.
Regulation under CLM Act not required	The EPA has completed an assessment of the contamination and decided that regulation under the <i>Contaminated Land Management Act 1997</i> is not required.

Regulation being finalised	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the <i>Contaminated Land Management Act 1997</i> . A regulatory approach is being finalised.
Contamination currently regulated under CLM Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). Management of the contamination is regulated by the EPA under the CLM Act. Regulatory notices are available on the EPA's Contaminated Land Public Record.
Contamination currently regulated under POEO Act	Contamination is currently regulated under the Protection of the Environment Operations Act 1997 (POEO Act). The EPA as the appropriate regulatory authority reasonably suspects that a pollution incident is occurring/ has occurred and that it requires regulation under the POEO Act. The EPA may use environment protection notices, such as clean up notices, to require clean up action to be taken. Such regulatory notices are available on the POEO public register.
Contamination being managed via the planning process (EP&A Act)	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. The contamination of this site is managed by the consent authority under the <i>Environmental Planning and Assessment Act 1979</i> (EP&A Act) planning approval process, with EPA involvement as necessary to ensure significant contamination is adequately addressed. The consent authority is typically a local council or the Department of Planning and Environment.
Contamination formerly regulated under the CLM Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation under the <i>Contaminated Land Management Act 1997</i> (CLM Act). The contamination was addressed under the CLM Act.
Contamination formerly regulated under the POEO Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed under the <i>Protection of the Environment Operations Act 1997</i> (POEO Act).

Contamination was addressed via the planning process (EP&A Act)	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed by the appropriate consent authority via the planning process under the <i>Environmental Planning and Assessment Act 1979</i> (EP&A Act).
Ongoing maintenance required to manage residual contamination (CLM Act)	The EPA has determined that ongoing maintenance, under the Contaminated Land Management Act 1997 (CLM Act), is required to manage the residual contamination. Regulatory notices under the CLM Act are available on the EPA's Contaminated Land Public Record.

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ABBOTSFORD	Former Gasworks	83 Wymston PARADE	Gasworks	Contamination formerly regulated under the CLM Act	-33.85288351	151.1265979
ABBOTSFORD	Former Gasworks	82, 83, 84 Wymston Pde, & 37, 39, 43, 45 St Albans STREET	Gasworks	Contamination formerly regulated under the CLM Act	-33.85288316	151.1267729
ABBOTSFORD	Former Gasworks	85 Wymston PARADE	Gasworks	Regulation under CLM Act not required	-33.85265214	151.1266277
ABBOTSFORD	Former Gasworks	80-81 Wymston Pde and 35 and 41 St Albans STREET	Gasworks	Regulation under CLM Act not required	-33.85306653	151.1268142
ABBOTSFORD	Former Gasworks	43 St Albans STREET	Gasworks	Contamination formerly regulated under the CLM Act	-33.85270604	151.126976
ABERDEEN	Former Transport Depot	87-89 St Andrew STREET	Other Industry	Regulation under CLM Act not required	-32.17160931	150.8972859
ALBION PARK	Caltex Albion Park Service Station	1 Calderwood ROAD	Service Station	Regulation under CLM Act not required	-34.57131362	150.7647971
ALBION PARK RAIL	Caltex Service Station	174 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.56134097	150.7953663
ALBION PARK RAIL	Caltex Service Station	31 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.55162786	150.7880626
ALBION PARK RAIL	Former Timber Storage Area	36 Rivulet CRESCENT	Other Industry	Regulation under CLM Act not required	-34.54872597	150.7899351
ALBURY	Mobil Depot, Railway Place Albury	1 Railway PLACE	Other Petroleum	Regulation under CLM Act not required	-36.08526805	146.9236999
ALBURY	Woolworths Petrol	515 Young STREET	Service Station	Regulation under CLM Act not required	-36.08073723	146.92351
ALBURY	Former Caltex Service Station	842 David STREET	Service Station	Regulation under CLM Act not required	-36.06398743	146.9252143
ALBURY	SRA Land, 514 to 526 Young Street	514 to 526 Young STREET	Other Petroleum	Regulation under CLM Act not required	-36.08084123	146.9241682
ALBURY	Former Gasworks and surrounding commercial land	441 Kiewa STREET	Gasworks	Contamination currently regulated under CLM Act	-36.08416926	146.9137704
ALBURY	Coles Express Albury	465 Guinea STREET	Service Station	Regulation under CLM Act not required	-36.07513665	146.9213077

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ALBURY	Former Thales Australia site, Albury	161 Fallon STREET	Other Industry	Contamination formerly regulated under the CLM Act	-36.064966	146.9434831
ALBURY	Xpress Service Station	616-624 Young STREET	Service Station	Contamination formerly regulated under the CLM Act	-36.07555262	146.9256466
ALBURY	Albury Plaza	Cnr Smollett Street and Townsend STREET	Other Industry	Regulation under CLM Act not required	-36.08112933	146.9135719
ALBURY	Mobil Albury Aviation Fuel Depot	Hangar 8 (Albury Airport), Ogden PLACE	Other Petroleum	Regulation under CLM Act not required	-36.07178139	146.9530165
ALBURY	SRA Land	448 and 452 Young STREET	Unclassified	Regulation under CLM Act not required	-36.08438605	146.9235454
ALBURY	Caltex Service Station	Dean Street, Corner Creek STREET	Service Station	Regulation under CLM Act not required	-36.07978937	146.9110825
ALEXANDRIA	Former Mobil Service Station	20 O'Riordan STREET	Service Station	Regulation under CLM Act not required	-33.9075539	151.2014811
ALEXANDRIA	Caltex Alexandria Service Station	133 Wyndham St, cnr McEvoy STREET	Service Station	Regulation under CLM Act not required	-33.90220927	151.2000425
ALEXANDRIA	Former Cadbury Schweppes	49-59 O'Riordan STREET	Other Industry	Contamination formerly regulated under the CLM Act	-33.91406619	151.195067
ALEXANDRIA	Formerly Gas N Go Alexandria (fully redeveloped into residential apartment as of September 2016)	10-20 Botany ROAD	Service Station	Regulation under CLM Act not required	-33.89536227	151.1987818
ALEXANDRIA	Mascot Developments	494-504 Gardeners ROAD	Other Industry	Regulation under CLM Act not required	-33.9198218	151.191282
ALEXANDRIA	Alexandria GoGas	562 Botany ROAD	Service Station	Regulation under CLM Act not required	-33.91577222	151.2000753
ALEXANDRIA	Australian Refined Alloys	202-212 Euston ROAD	Metal Industry	Regulation under CLM Act not required	-33.91505136	151.185872
ALEXANDRIA	Alexandra Canal Sediments	Off Huntley STREET	Other Industry	Contamination currently regulated under CLM Act	-33.92204213	151.1770009
ALEXANDRIA	Australia Post	10-24 Ralph STREET	Other Industry	Contamination was addressed via the planning process (EP&A Act)	-33.91583041	151.197997
ALEXANDRIA	Perry Park	1B Maddox STREET	Landfill	Regulation under CLM Act not required	-33.90809949	151.1962945

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ALEXANDRIA	Alexandria Gardens	146-156 Wyndham Street & 146-156 Botany ROAD	Unclassified	Regulation under CLM Act not required	-33.89956961	151.1997377
ALEXANDRIA	Sydney Park	Sydney Park ROAD	Landfill	Contamination currently regulated under CLM Act	-33.91031048	151.1844672
ALEXANDRIA	Former Industrial Site (now Value Suites)	16 O'Riordan STREET	Other Industry	Regulation under CLM Act not required	-33.9069796	151.201902
ALEXANDRIA	205-225 Euston Road, Alexandria	205-225 Euston ROAD	Other Industry	Regulation under CLM Act not required	-33.912309	151.185862
ALEXANDRIA	The Gentry Alexandria	31-41 William STREET	Unclassified	Regulation under CLM Act not required	-33.91258565	151.1981861
ALSTONVILLE	Caltex Service Station Alstonville	73 Main STREET	Service Station	Regulation under CLM Act not required	-28.84115994	153.4388699
AMBARVALE	Caltex Service Station	37 Woodhouse DRIVE	Service Station	Regulation under CLM Act not required	-34.08438034	150.8019168
ANNANDALE	7-Eleven (former Mobil) Annandale Service Station	198 Parramatta ROAD	Service Station	Regulation under CLM Act not required	-33.88706434	151.1741135
ANNANDALE	Shell Coles Express Service Station	124-126 Johnston STREET	Service Station	Regulation under CLM Act not required	-33.88085651	151.1704805
APPIN	Elladale Creek Aqueduct Upper Canal	Macquariedale ROAD	Unclassified	Regulation under CLM Act not required	-34.18867067	150.7539597
APPIN	West Cliff Colliery	Wedderburn ROAD	Other Petroleum	Regulation under CLM Act not required	-34.21970612	150.8217522
ARDLETHAN	Landmark Fertiliser Storage Facility	18 & 24-26 Arianh STREET	Chemical Industry	Regulation under CLM Act not required	-34.35696645	146.9007084
ARGENTON	NSW Mines Rescue Services - Argenton	533 Lake ROAD	Other Industry	Regulation under CLM Act not required	-32.93807208	151.6269664
ARMIDALE	Former Mobil Depot	132 Niagara STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-30.51115918	151.6490343
ARMIDALE	Caltex Service Station	146 Miller STREET	Service Station	Regulation under CLM Act not required	-30.51362759	151.6481123
ARMIDALE	RTA land adjoining Martin Street estate	Martin STREET	Other Industry	Contamination formerly regulated under the CLM Act	-30.5045	151.6433

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ARMIDALE	Shell Service Station	93 Marsh STREET	Service Station	Regulation under CLM Act not required	-30.51299824	151.6697557
ARMIDALE	Parklands near the former gasworks	Beardy Street and Allingham STREET	Gasworks	Regulation under CLM Act not required	-30.51013465	151.6652722
ARMIDALE	Gasworks and portion of Harris Park	Corner of Beardy Street and Allingham STREET	Gasworks	Contamination currently regulated under CLM Act	-30.51157374	151.6623009
ARMIDALE	Former Lot 3 Martin Street	89 Martin STREET	Other Industry	Regulation under CLM Act not required	-30.50675009	151.6453558
ARMIDALE	Martin Street Estate	Martin STREET	Other Industry	Regulation under CLM Act not required	-30.50559024	151.6431854
ARMIDALE	Caltex Armidale Girraween Service Station	6-8 Queen Elizabeth DRIVE	Service Station	Regulation under CLM Act not required	-30.50348872	151.6510748
ARMIDALE	Martin Street, Crown Land	Martin STREET	Other Industry	Contamination formerly regulated under the CLM Act	-30.50414076	151.6429516
ARMIDALE	Former Shell Depot	134 Niagara STREET	Other Petroleum	Regulation under CLM Act not required	-30.51180178	151.6488634
ARMIDALE	Caltex Service Station	144 Marsh STREET	Service Station	Regulation under CLM Act not required	-30.51709925	151.6675802
ARMIDALE	Caltex North Hill Service Station	2-4 Marsh STREET	Service Station	Regulation under CLM Act not required	-30.50320439	151.6727051
ARMIDALE	Mobil Armidale Service Station and Former Depot	10-12 McLennan STREET	Service Station	Regulation under CLM Act not required	-30.51107573	151.648242
ARMIDALE	Caltex Service Station	19/10541 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-30.53210764	151.6160492
ARMIDALE	Armidale Dumaresq Council Grafton Road Depot	15-25 Grafton ROAD	Other Petroleum	Regulation under CLM Act not required	-30.52058076	151.6815261
ARNCLIFFE	7-Eleven Arncliffe	28 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-33.93428397	151.1525438
ARNCLIFFE	Combined Projects Arncliffe	104-128 Princes HIGHWAY	Other Industry	Regulation under CLM Act not required	-33.93783874	151.1494559
ARTARMON	7-Eleven (former Mobil) Artarmon Service Station	477 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.81053826	151.1774248

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ASHBY	Ashby Dry Dock	via Clarence STREET	Other Industry	Contamination formerly regulated under the CLM Act	-29.44158377	153.1972304
ASHFIELD	7-Eleven Ashfield	132 Liverpool Road STREET	Service Station	Under assessment	-33.8902785	151.1297902
ASHFIELD	Vehicle Workshop	445-449 Liverpool ROAD	Service Station	Regulation under CLM Act not required	-33.88826829	151.1167477
ASQUITH	BP Service Station	462 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.68982678	151.106156
ATTUNGA	Attunga Limestone Mine (Waste Oil Site)	Garthowen ROAD	Other Industry	Regulation under CLM Act not required	-30.92920627	150.8579435
AUBURN	DIC Australia	323 Chisholm ROAD	Other Industry	Regulation under CLM Act not required	-33.87228962	151.0157032
AUBURN	Former Ajax Chemical Factory	9 Short STREET	Other Industry	Contamination formerly regulated under the CLM Act	-33.83671601	151.0292071
AUBURN	Janyon	Manchester ROAD	Other Industry	Regulation under CLM Act not required	-33.84467826	151.020745
AUBURN	Maintrain Facility - Sydney Trains Auburn	Manchester ROAD	Other Industry	Regulation under CLM Act not required	-33.84410947	151.0242502
AUBURN	Department of Corrective Services land adjacent to the former Auburn Landfill	Jamieson STREET	Landfill	Contamination formerly regulated under the CLM Act	-33.82928257	151.0590653
AUBURN	Commercial Premises	11-13 Percy STREET	Other Industry	Under assessment	-33.849825	151.040497
AWABA	Awaba Colliery	Wilton ROAD	Other Industry	Regulation under CLM Act not required	-33.02098186	151.5383612
BALGOWLAH	BP Service Station	Cnr Sydney Road and Maretimo STREET	Service Station	Regulation under CLM Act not required	-33.79546175	151.2559309
BALGOWLAH	Part of Manly Council Maintenance Depot	8-10 Roseberry STREET	Other Petroleum	Regulation under CLM Act not required	-33.78928907	151.2679557
BALGOWNIE	Fuel Power Plus	99 Balgownie ROAD	Service Station	Contamination currently regulated under POEO Act	-34.38925632	150.8808544
BALLINA	Former Mobil Service Station	37-41 Cherry STREET	Service Station	Regulation under CLM Act not required	-28.86952673	153.5624436

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BALLINA	Ballina Shell	273 River STREET	Service Station	Regulation under CLM Act not required	-28.86809272	153.5552789
BALLINA	Woolworths Petrol	Kerr STREET	Service Station	Regulation under CLM Act not required	-28.85824461	153.5605439
BALLINA	Ballina Mays Motors	River STREET	Other Petroleum	Regulation under CLM Act not required	-28.86935402	153.5585931
BALRANALD	Caltex Service Station	Sturt HIGHWAY	Service Station	Regulation under CLM Act not required	-34.66747746	143.5662034
BANKSIA	Woolworths Petrol Service Station Banksia	314 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-33.94567308	151.1416884
BANKSIA	Cooks Cove Development	Cooks Cove PARK	Landfill	Regulation under CLM Act not required	-33.94492759	151.1549947
BANKSMEADOW	Orica Botany Groundwater Project	16-20 Beauchamp ROAD	Chemical Industry	Contamination currently regulated under CLM Act	-33.95526361	151.2152005
BANKSMEADOW	Discovery Cove, Former Ampol Rail Terminal	1801 Botany ROAD	Other Petroleum	Regulation being finalised	-33.96162178	151.2184122
BANKSMEADOW	Caltex Terminal	1-3 Penrhyn ROAD	Other Petroleum	Contamination currently regulated under POEO Act	-33.96335328	151.2171062
BANKSMEADOW	Orica Botany (Pre-2003 Regulation)	Denison STREET	Chemical Industry	Contamination currently regulated under CLM Act	-33.9516159	151.2195804
BANKSMEADOW	Veolia Waste Transfer Terminal (former Keith Engineering site)	34-36 McPherson STREET	Other Industry	Regulation under CLM Act not required	-33.95811039	151.2195225
BANKSMEADOW	Orica Former Chlor Alkali Plant (same site as Orica Botany Groundwater Project)	Botany Industrial Park, off Denison STREET	Chemical Industry	Contamination currently regulated under CLM Act	-33.95664283	151.221685
BANKSMEADOW	Former Pipeline	Corish CIRCLE	Other Petroleum	Regulation being finalised	-33.94705787	151.2209919
BANKSMEADOW	Pacific National Rail Siding	1 Beauchamp ROAD	Chemical Industry	Contamination currently regulated under CLM Act	-33.95757712	151.2204974
BANKSMEADOW	Former Mobil Banksmeadow Terminal	Coal Pier ROAD	Other Petroleum	Regulation under CLM Act not required	-33.95405624	151.2142048
BANKSMEADOW	Orica Car Park Waste Encapsulation	Corish CIRCLE	Landfill	Contamination formerly regulated under the POEO Act	-33.94703665	151.22083

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BANKSTOWN	7-Eleven Service Station	689 Henry Lawson DRIVE	Service Station	Regulation under CLM Act not required	-33.92749953	150.9804784
BANORA POINT	Caltex Service Station	Corner Leisure Drive and Darlington DRIVE	Service Station	Regulation under CLM Act not required	-28.21390712	153.5417434
BARGO	Tahmoor Colliery	Remembrance DRIVE	Other Industry	Regulation under CLM Act not required	-34.25090795	150.5793631
BARMEDMAN	Caltex - Barmedman	Corner Watson Street and Star STREET	Other Petroleum	Regulation under CLM Act not required	-34.14351302	147.3824934
BARRACK HEIGHTS	Caltex Service Station	332-336 Shellharbour ROAD	Service Station	Regulation under CLM Act not required	-34.56489171	150.8597814
BASS HILL	Woolworths Caltex Bass Hill	862 Hume HIGHWAY	Service Station	Under preliminary investigation order	-33.9008648	150.9991181
BATEAU BAY	Former landfill	The Entrance ROAD	Landfill	Contamination currently regulated under CLM Act	-33.3938305	151.4699046
BATEAU BAY	Woolworths Service Station Bateau Bay	9 Bay Village ROAD	Service Station	Regulation under CLM Act not required	-33.37316432	151.4737125
BATEHAVEN	Caltex Service Station	264 Beach ROAD	Service Station	Regulation under CLM Act not required	-35.73255166	150.1997536
BATEHAVEN	Coles Express Service Station Batehaven	198 Beach ROAD	Service Station	Regulation under CLM Act not required	-35.72671807	150.1944931
BATEMANS BAY	Caltex Service Station	87-89 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-35.71940701	150.1762788
BATHURST	Shell Coles Express Service Station	(Cnr Stewart and Rocket Street) 298 Stewart STREET	Service Station	Regulation under CLM Act not required	-33.41910999	149.5677773
BATHURST	Former Shell Depot Bathurst	56 Bant STREET	Other Petroleum	Regulation under CLM Act not required	-33.43471575	149.5774595
BATHURST	Bathurst Rail Fabrication Centre	34 Alpha STREET	Other Industry	Regulation under CLM Act not required	-33.42805153	149.5829156
BATHURST	Bathurst - Former Caltex Depot	114 Howick STREET	Other Petroleum	Regulation under CLM Act not required	-33.42296963	149.5862574
BATHURST	Caltex Bathurst Service Station	53 Durham STREET	Service Station	Regulation under CLM Act not required	-33.41689545	149.5848527

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BATHURST	Former Police Station	Corner of William Street and Durham STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-33.41592424	149.5842233
BATHURST	Former Mobil Depot	1 Lambert STREET	Other Petroleum	Regulation under CLM Act not required	-33.42875534	149.5806344
BATHURST	Crago Mill site	Piper STREET	Other Industry	Regulation under CLM Act not required	-33.42777602	149.5809428
BATHURST	Former Mobil Depot	Lower Russell STREET	Other Petroleum	Regulation under CLM Act not required	-33.42497876	149.585128
BATHURST	Shell Coles Express Bathurst Service Station	59 Durham STREET	Service Station	Regulation under CLM Act not required	-33.41639415	149.5843243
BATHURST	Former Gasworks	71 Russell STREET	Gasworks	Contamination formerly regulated under the CLM Act	-33.42420302	149.5864517
BATHURST	Former Devro Cattle Hide Processing Plant	46 Vale ROAD	Other Industry	Regulation under CLM Act not required	-33.43926137	149.5803563
BATLOW	Crown Reserves	Mill ROAD	Other Industry	Under assessment	-35.535253	148.15551
BAULKHAM HILLS	Caltex Baulkham Hills Service Station	117 Seven Hills ROAD	Service Station	Regulation under CLM Act not required	-33.76139872	150.9750767
BAULKHAM HILLS	Caltex Service Station	130 Seven Hills ROAD	Service Station	Regulation under CLM Act not required	-33.76180431	150.9746297
BAULKHAM HILLS	Shell Coles Express Service Station	363 Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.7601819	150.9916224
BAULKHAM HILLS	IBM Baulkham Hills Data Centre	3 Brookhollow AVENUE	Other Petroleum	Regulation under CLM Act not required	-33.733048	150.971221
BEACON HILL	Caltex Service Station	176 Warringah ROAD	Service Station	Contamination currently regulated under CLM Act	-33.75381485	151.2602617
BEACON HILL	Former 7-Eleven Service Station, Beacon Hill	312 Warringah ROAD	Service Station	Regulation under CLM Act not required	-33.75129647	151.2469656
BEACONSFIELD	63-85 Victoria St, Beaconsfield	63-85 Victoria STREET	Other Industry	Regulation under CLM Act not required	-33.9102929	151.2016275
BEGA	Coles Express (former Caltex) Service Station	2-6 Swan (Corner Carp) STREET	Service Station	Regulation under CLM Act not required	-36.67388263	149.838163

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BEGA	Former BP Service Station	100 - 102 Gipps STREET	Service Station	Regulation under CLM Act not required	-36.67563094	149.8433291
BEGA	Former Bega Gasworks	19-29 Upper STREET	Gasworks	Under preliminary investigation order	-36.67710613	149.8480253
BEGA	Caltex Service Station	36-40 Lagoon STREET	Service Station	Regulation under CLM Act not required	-36.66832965	149.8289048
BEGA	Lands Adjoining the Former Bega Gasworks	Part of Upper, East, Gordon & Gloucester STREET	Gasworks	Under preliminary investigation order	-36.67704706	149.848425
BEGA	Spenco Site - owned by Bega Spotlight Property 2 Pty Ltd	53-65 Bega Street STREET	Other Industry	Regulation under CLM Act not required	-36.67135539	149.8450828
BELMONT	Coles Express Belmont Service Station	502 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.03317155	151.6605194
BELMONT	Former Ampol Service Station	467-469 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.0299728	151.6613301
BELMONT NORTH	Woolworths Service Station Belmont North	399 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.02454211	151.6634893
BELMONT NORTH	Caltex Belmont North Service Station	406 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.02476876	151.6623655
BELMONT NORTH	Belmont Bus Depot	2 Floraville ROAD	Other Petroleum	Regulation under CLM Act not required	-33.02476269	151.6606657
BELMORE	SRA Land	348 Burwood ROAD	Unclassified	Regulation under CLM Act not required	-33.91753611	151.0859487
BELMORE	7-Eleven Service Station	792-794 Canterbury ROAD	Service Station	Regulation under CLM Act not required	-33.92567992	151.0873469
BELROSE	Glenrose Shopping Centre	56-58 Glen STREET	Unclassified	Contamination currently regulated under CLM Act	-33.73917996	151.2101029
BELROSE	Woolworths Petrol	60 Glen STREET	Service Station	Regulation under CLM Act not required	-33.74009002	151.2091045
BELROSE	Caltex Service Station	157 Forest WAY	Service Station	Regulation under CLM Act not required	-33.7347675	151.2212004
BENNETTS GREEN	Former Windale Wastewater Treatment Works	8 Templar PLACE	Other Industry	Regulation under CLM Act not required	-33.00317523	151.6936636

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BERESFIELD	BP Beresfield Truckstop	2 Kinta Drive, corner John Renshaw DRIVE	Service Station	Regulation under CLM Act not required	-32.81122768	151.6393427
BERESFIELD	Former Koppers Timber Treatment Site	53 Weakleys DRIVE	Other Industry	Regulation under CLM Act not required	-32.79902937	151.6358846
BERKELEY VALE	Former Berkeley Vale Service Station	121-123 Lakedge AVENUE	Service Station	Regulation under CLM Act not required	-33.34899186	151.4423109
BERKSHIRE PARK	Shell Coles Express Berkshire Park	746 - 752 Richmond ROAD	Service Station	Regulation under CLM Act not required	-33.66508654	150.7990243
BEROWRA	Caltex Berowra Service Station	12-14 Berowra Waters ROAD	Service Station	Regulation under CLM Act not required	-33.6233827	151.1505554
BEROWRA	7-Eleven Berowra Service Station	965-969 Pacific (Cnr Waratah Rd) HIGHWAY	Service Station	Regulation under CLM Act not required	-33.62673163	151.1479171
BEROWRA	Shell Coles Express Berowra	955 Pacific (Cnr Yallambee Rd) HIGHWAY	Service Station	Regulation under CLM Act not required	-33.62818015	151.1475736
BEROWRA	42 Berowra Waters Road	42 Berowra Waters ROAD	Unclassified	Regulation under CLM Act not required	-33.6203823	151.1481246
BERRIGAN	Caltex Service Station Berrigan	155-165 Chanter STREET	Service Station	Regulation under CLM Act not required	-35.6557616	145.8015557
BERRY	Berry Service Centre - Shell Branded	88 Queen STREET	Service Station	Regulation under CLM Act not required	-34.77571634	150.6961713
BERRY	BP branded service station Berry (Formerly Shell)	75 Queen STREET	Service Station	Contamination currently regulated under POEO Act	-34.77500516	150.695167
BEXLEY	7-Eleven Bexley	474 Forest ROAD	Service Station	Regulation under CLM Act not required	-33.95160096	151.1252355
BEXLEY	7-Eleven (former Mobil) Service Station Bexley	613 Forest ROAD	Service Station	Regulation under CLM Act not required	-33.95539246	151.118447
BILAMBIL HEIGHTS	Former Banana Plantation Land	38 McAllisters ROAD	Other Industry	Regulation under CLM Act not required	-28.21218056	153.4778762
BILLINUDGEL	CSR Readymix	Mogo PLACE	Other Industry	Regulation under CLM Act not required	-28.50210255	153.5278161
BILLINUDGEL	Billinudgel General Store	2A Wilfred STREET	Service Station	Under assessment	-28.504322	153.526982

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BLACKMANS FLAT	Mount Piper Extension Development Site	2847 Boulder ROAD	Other Industry	Regulation under CLM Act not required	-33.35619968	150.0279881
BLACKMANS FLAT	Western Coal Services (former Lamberts Gully Mine)	Castlereagh HIGHWAY	Other Industry	Regulation under CLM Act not required	-33.36713827	150.0483236
BLACKTOWN	Former Caltex Service Station	131 Richmond ROAD	Service Station	Regulation under CLM Act not required	-33.75866104	150.8962614
BLACKTOWN	Valspar Blacktown	4 Steel STREET	Chemical Industry	Regulation under CLM Act not required	-33.75425018	150.9127714
BLACKTOWN	Harpers Bush (Reserve 752)	Reservoir ROAD	Unclassified	Regulation under CLM Act not required	-33.79119448	150.8967838
BLACKTOWN	7-Eleven Service Station	60 Walters ROAD	Service Station	Regulation under CLM Act not required	-33.77599783	150.8948926
BLAKEHURST	Woolworths Service Station Blakehurst	390 Princes HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-33.99019694	151.1135663
BLAKEHURST	The Bay Nursing Home	392 & 394 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-33.99030465	151.1140293
BLAXLAND	7-Eleven (former Mobil) Service Station	137 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.74627	150.6137669
BOAMBEE	Lindsay Bros transport depot site	542 Pacific HIGHWAY	Other Petroleum	Regulation under CLM Act not required	-30.33106848	153.0802985
BOAMBEE	BP-branded (former Mobil) Boambee Service Station	601 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-30.33544287	153.0817266
BOBS FARM	Bob's Farm	15 Fenningham Island ROAD	Other Industry	Regulation under CLM Act not required	-32.74867207	152.0316217
BOGGABILLA	Former Caltex Service Station	90 Simpson Street, corner Newell HIGHWAY	Service Station	Regulation under CLM Act not required	-28.60654029	150.3571056
BOGGABILLA	Lowes (Former Mobil) Depot	Newell HIGHWAY	Other Petroleum	Regulation under CLM Act not required	-28.61023985	150.3529156
BOMADERRY	Caltex Service Station	341 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.84561952	150.5946978
BOMADERRY	Caltex Service Station Bomaderry	246 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.83833824	150.5958799

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BOMADERRY	Former Mobil Emoleum Depot	7 Victa WAY	Other Petroleum	Regulation under CLM Act not required	-34.84454618	150.6139462
BOMADERRY	Former Shell Depot	44 Railway STREET	Other Petroleum	Regulation under CLM Act not required	-34.85193621	150.6117038
BOMADERRY	SRA Land	Lot 2 Meroo STREET	Unclassified	Regulation under CLM Act not required	-34.85314813	150.6099573
BOMADERRY	Bomaderry Works Depot	10 McIntyre WAY	Other Petroleum	Regulation under CLM Act not required	-34.84576748	150.6131411
BOMADERRY	Commercial Land	320 Princes HIGHWAY	Other Industry	Contamination currently regulated under CLM Act	-34.84424073	150.5958149
BOMBALA	Caltex Service Station Bombala	159-161 Maybe STREET	Service Station	Regulation under CLM Act not required	-36.91234945	149.2374622
BOMBALA	Former Bright Street Timber Mill	Bright STREET	Other Industry	Regulation under CLM Act not required	-36.91547645	149.2302454
BOMBALA	Caltex Bombala Service Station	High Street corner Stephen STREET	Service Station	Regulation under CLM Act not required	-36.90447935	149.241292
BOMBALA	Prime Pine site	Sandy LANE	Other Industry	Regulation under CLM Act not required	-36.9315425	149.2110959
BOMEN	Caltex Terminal	34 Lewington STREET	Other Petroleum	Regulation under CLM Act not required	-35.0700202	147.4121955
BOMEN	Enirgi Power Storage Recycling	509 Byrnes ROAD	Other Industry	Under assessment	-35.058808	147.428677
BONDI	BP-branded Service Station	185 Bondi ROAD	Service Station	Regulation under CLM Act not required	-33.89432208	151.2647671
BONDI	Caltex Service Station Bondi	51 Bondi ROAD	Service Station	Regulation under CLM Act not required	-33.8936307	151.260001
BONDI JUNCTION	Waverley Bus Depot	1-15 Oxford STREET	Other Industry	Regulation under CLM Act not required	-33.89165341	151.2421246
BONNY HILLS	Bonny View Store	923 Ocean DRIVE	Service Station	Regulation under CLM Act not required	-31.59075636	152.8392935
BONNYRIGG	Metro (Formerly United & AP SAVER) Service Station Bonnyrigg	709 Cabramatta (W) ROAD	Service Station	Regulation under CLM Act not required	-33.89297085	150.8925935

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BONNYRIGG HEIGHTS	BP-Branded Service Station Bonnyrigg	451 North Liverpool ROAD	Service Station	Regulation under CLM Act not required	-33.89416327	150.8578378
BOOLAROO	Cardiff West Estate - Pasminco Cockle Creek	Adjacent to PCC Smelter at 13A Main ROAD	Metal Industry	Regulation under CLM Act not required	-32.93950137	151.6349183
BOOLAROO	Cockle Creek and Cockle Bay Sediments	Off Creek Reserve ROAD	Metal Industry	Contamination currently regulated under CLM Act	-32.96079541	151.6141327
BOOLAROO	Pasminco Cockle Creek Smelter	Lake ROAD	Metal Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-32.94434593	151.6307345
BOOLAROO	Incitec Pivot	13 Main STREET	Other Industry	Contamination formerly regulated under the CLM Act	-32.94803538	151.6302187
BOOLAROO	Bunnings Site - Pasminco Cockle Creek	13a Main ROAD	Metal Industry	Contamination formerly regulated under the CLM Act	-32.94364503	151.6252316
BOOLAROO	Part Lot 2 DP1127713 (proposed Lot G) - Pasminco Cockle Creek Smelter site	13a Main ROAD	Metal Industry	Contamination formerly regulated under the CLM Act	-32.94404392	151.6267695
BOOLAROO	Lot 600 DP1228699 (formerly Part Lot 2 DP1127713 & proposed 'Lot D') - Pasminco Cockle Creek Smelter site	Main ROAD	Metal Industry	Contamination formerly regulated under the CLM Act	-32.94440875	151.6264143
BOOROWA	Former Mobil Depot	14-16 Brial STREET	Other Petroleum	Regulation under CLM Act not required	-34.43673234	148.7300821
BOOROWA	Mobil Service Station	63-69 Marsden STREET	Service Station	Contamination formerly regulated under the CLM Act	-34.44157331	148.7162391
BOTANY	Former Aerosols of Australia	1617 Botany ROAD	Chemical Industry	Regulation under CLM Act not required	-33.9529386	151.2037468
BOTANY	Allnex	49-61 Stephen ROAD	Chemical Industry	Contamination currently regulated under CLM Act	-33.952588	151.21101
BOTANY	Former Tannery	2 Daniel STREET	Other Industry	Regulation under CLM Act not required	-33.94126194	151.1991087
BOTANY	Botany, Underwood	14a Underwood AVENUE	Unclassified	Contamination being managed via the planning process (EP&A Act)	-33.94508532	151.1947626
BOTANY	Roads and Maritime Service	5 - 9 Lord STREET	Other Industry	Regulation under CLM Act not required	-33.94100279	151.1968763
BOTANY	Former Industrial Site	28 Folkestone PARADE	Unclassified	Contamination being managed via the planning process (EP&A Act)	-33.95187539	151.1960537

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BOURKE	Caltex Service Station	82-86 Anson STREET	Service Station	Regulation under CLM Act not required	-30.09500388	145.9414388
BOURKE	Former Shell Bourke Depot	94-106 Anson STREET	Service Station	Regulation under CLM Act not required	-30.09548497	145.9436745
BOWENFELS	Bowenfels Field Support Centre	9-13 Coerwull ROAD	Other Petroleum	Regulation under CLM Act not required	-33.47514572	150.1323899
BOWRAL	Shell Coles Express Bowral Service Station	430 Bong Bong STREET	Service Station	Regulation under CLM Act not required	-34.48269596	150.417389
BOWRAL	Former Gasworks	Merrigang STREET	Gasworks	Contamination currently regulated under CLM Act	-34.4783957	150.4255053
BOX HILL	Former Waste Management Facility	25 Terry ROAD	Landfill	Regulation under CLM Act not required	-33.65559259	150.8977986
BOX HILL	Former Poultry Farm	27-33 Boundary ROAD	Other Industry	Regulation under CLM Act not required	-33.64866563	150.8815467
BOX HILL	Former Poultry Farm	19-25 Boundary ROAD	Other Industry	Regulation under CLM Act not required	-33.65038071	150.8813725
BRANXTON	Former Service Station Branxton	Part of 70 Maitland STREET	Service Station	Contamination currently regulated under CLM Act	-32.65631582	151.3516243
BRANXTON	Branxton Wastewater Treatment Works	2151 New England HIGHWAY	Other Industry	Regulation under CLM Act not required	-32.66069944	151.3625572
BREWARRINA	Dowell's Fuel	39 Doyle STREET	Service Station	Regulation under CLM Act not required	-29.96152786	146.8612561
BRIGHTON-LE-SANDS	Shell Service Station Brighton Le Sands & adjacent land	2 General Holmes DRIVE	Service Station	Contamination formerly regulated under the CLM Act	-33.9579214	151.1578665
BRIGHTON-LE-SANDS	Cook Park	General Holmes DRIVE	Service Station	Contamination formerly regulated under the CLM Act	-33.9581072	151.1579572
BROADMEADOW	Former Industrial Site	16 Broadmeadow ROAD	Service Station	Regulation under CLM Act not required	-32.91444096	151.7300112
BROADMEADOW	Nineways Broadmeadow Coles Express SS	Corner Brunker Road and Lambton ROAD	Service Station	Regulation under CLM Act not required	-32.92511185	151.7364247
BROADMEADOW	2 Georgetown Road, Broadmeadow NSW 2292	2 Georgetown ROAD	Metal Industry	Under assessment	-32.912288	151.732211

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BROKEN HEAD	South Byron Sewage Treatment Works	Broken Head ROAD	Other Industry	Regulation under CLM Act not required	-28.67233626	153.6148974
BROKEN HILL	Former Caltex Depot	3 Kanandah ROAD	Service Station	Regulation under CLM Act not required	-31.98341823	141.4332211
BROKEN HILL	Former Caltex Service Station	167-173 Argent STREET	Service Station	Regulation under CLM Act not required	-31.96066663	141.4624175
BROKEN HILL	Caltex Service Station	535 Argent STREET	Service Station	Regulation under CLM Act not required	-31.95311924	141.4745274
BROKEN HILL	Tasco Petroleum (Former Mobil) Depot	5 Kanandah ROAD	Other Petroleum	Regulation under CLM Act not required	-31.9843986	141.4329127
BROKEN HILL	Former Mobil Aviation Refuelling Facility, Broken Hill Airport	Airport ROAD	Other Petroleum	Regulation under CLM Act not required	-31.99928312	141.4685759
BROKEN HILL	Caltex Service Station	73-87 Oxide STREET	Service Station	Contamination formerly regulated under the CLM Act	-31.95519591	141.4658647
BROKEN HILL	Former Mobil Depot	Corner Of Talc Street and Gossan STREET	Other Petroleum	Regulation under CLM Act not required	-31.96018102	141.4514752
BROKEN HILL	Former Gasworks	Cornish STREET	Gasworks	Contamination formerly regulated under the CLM Act	-31.96330562	141.4470611
BROOKLYN	Former Oyster Farm	139 Brooklyn (Off Government) ROAD	Unclassified	Regulation under CLM Act not required	-33.54716867	151.2229744
BROOKVALE	Coles Express Service Station Brookvale	198 Harbord ROAD	Service Station	Regulation under CLM Act not required	-33.76332299	151.2794028
BROOKVALE	Woolworths Petrol Brookvale	756 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.76170587	151.2762411
BROOKVALE	Caltex Service Station Brookvale	740-742 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.76146721	151.2745358
BROOKVALE	Harrison Manufacturing	75 Old Pittwater ROAD	Other Industry	Regulation under CLM Act not required	-33.76497282	151.2637961
BROOKVALE	Brookvale Bus Depot	630-636 Pittwater ROAD	Other Petroleum	Regulation under CLM Act not required	-33.76641698	151.2705659
BROOKVALE	Warringah Mall	Cnr Condamine Street, Old Pittwater Rd & Cross STREET	Other Industry	Regulation under CLM Act not required	-33.76729923	151.2657272

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BROOKVALE	Littles Dry Cleaning	123 Old Pittwater ROAD	Other Industry	Regulation under CLM Act not required	-33.76759121	151.2625932
BROOMS HEAD	Former Brooms Head General Store and Service Station	92 Ocean ROAD	Service Station	Regulation under CLM Act not required	-29.60711599	153.3346312
BROWNSVILLE	Caltex Service Station	342 Kanahooka ROAD	Service Station	Regulation under CLM Act not required	-34.48591734	150.8064373
BRUNSWICK HEADS	Caltex Service Station	5 Tweed STREET	Service Station	Regulation under CLM Act not required	-28.5381619	153.5487135
BUDGEWOI	Colongra Power Station	Off Scenic DRIVE	Other Industry	Under assessment	-33.21463137	151.5529338
BULAHDELAH	Caltex Service Station	8 Red Gum Road, Corner Mahogany STREET	Service Station	Regulation under CLM Act not required	-32.39837094	152.2106015
BULAHDELAH	Former Caltex Service Station	53-59 Bulahdelah WAY	Service Station	Regulation under CLM Act not required	-32.40721638	152.2110291
BULAHDELAH	BP-branded (former Mobil) Service Station	73-75 Bulahdelah WAY	Service Station	Regulation under CLM Act not required	-32.40971018	152.2105785
BULLABURRA	Former Burmah Bullaburra Service Station	367 - 369 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.72482995	150.4124537
BULLI	Scrap Yard	7 Molloy STREET	Other Industry	Contamination formerly regulated under the CLM Act	-34.33663195	150.9131154
BULLI	Bulli Brickworks	Quilkey PLACE	Other Industry	Regulation under CLM Act not required	-34.33263113	150.9086247
BUNGALORA	Former landfill area	Part of 840 Terranora ROAD	Other Industry	Regulation under CLM Act not required	-28.2424318	153.4789209
BUNGENDORE	Former Timber Treatment Plant	Corner King Street and Butmaroo STREET	Other Industry	Contamination formerly regulated under the CLM Act	-35.26151273	149.4434907
BURONGA	Caltex Service Station	Sturt Hwy Cnr Silver City HIGHWAY	Service Station	Regulation under CLM Act not required	-34.17056496	142.1813847
BURWOOD	Burwood STA Depot	Cnr Shaftesbury and Parramatta ROADS	Other Industry	Contamination formerly regulated under the CLM Act	-33.86982934	151.1089057
BYRON BAY	Residential Development	Lot 15 Seaview STREET	Unclassified	Regulation under CLM Act not required	-28.65214464	153.6165573

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BYRON BAY	Butler Street Reserve Byron Bay	Butler STREET	Landfill	Under assessment	-28.64340617	153.6099674
CABARITA	Dulux (Orica Australia)	Cabarita ROAD	Chemical Industry	Contamination formerly regulated under the CLM Act	-33.84643972	151.1157115
CABARITA	Wellcome Soil Containment Cells Cabarita	47 and 48 Phillips STREET	Other Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.85250251	151.1176366
CABRAMATTA	Caltex (former Mobil) Lansvale Service Station	141 Hume HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-33.89442261	150.9571507
CABRAMATTA	Caltex Service Station Cabramatta	168 John STREET	Service Station	Regulation under CLM Act not required	-33.89422314	150.9279279
CABRAMATTA	Cabramatta Creek	17 A and 19A Liverpool Street STREET	Unclassified	Regulation under CLM Act not required	-33.90284952	150.9415616
CABRAMATTA WEST	BP Lansvale	115-119 Hume HIGHWAY	Service Station	Regulation being finalised	-33.893722	150.958738
CABRAMURRA	Selwyn Snowfields / Selwyn Snow Resort	213A Kings Cross ROAD	Other Industry	Regulation under CLM Act not required	-35.90578	148.4501785
CALGA	Former service station	101 Peats Ridge ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.37592138	151.2254951
CALLALA BEACH	Callala Beach General Store	(formerly 1 Quay Rd) 114A Quay ROAD	Service Station	Regulation under CLM Act not required	-35.0101817	150.6964322
CAMBRIDGE GARDENS	Caltex Cambridge Park	1 Boomerang PLACE	Service Station	Regulation under CLM Act not required	-33.74068794	150.717174
CAMDEN	Camden High School (former)	John STREET	Gasworks	Regulation under CLM Act not required	-34.05114079	150.6951285
CAMDEN	Caltex Camden Service Station	21 Barsden STREET	Service Station	Regulation under CLM Act not required	-34.05808413	150.6914744
CAMDEN SOUTH	Coles Express Service Station Camden South	273 Old Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-34.08660995	150.6945444
CAMELLIA	Hymix Concrete	14 Grand AVENUE	Metal Industry	Contamination currently regulated under CLM Act	-33.82243454	151.044789
CAMELLIA	Mauri Foods	15 Grand AVENUE	Other Industry	Regulation being finalised	-33.81996985	151.0335725

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
CAMELLIA	James Hardie Factory (former, eastern portion)	1 Grand AVENUE	Other Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.8182384	151.0261019
CAMELLIA	Bitumen Manufacturer	12 Grand AVENUE	Other Industry	Contamination currently regulated under CLM Act	-33.82189695	151.0429251
CAMELLIA	Hambear	14 Thackeray STREET	Metal Industry	Regulation under CLM Act not required	-33.81920482	151.0419394
CAMELLIA	Former Asciano Properties	39 Grand AVENUE	Chemical Industry	Contamination currently regulated under CLM Act	-33.82056014	151.0443331
CAMELLIA	Railway Land	27 Grand AVENUE	Other Industry	Regulation under CLM Act not required	-33.81910822	151.0382483
CAMELLIA	Wrigg	13 Grand AVENUE	Metal Industry	Under preliminary investigation order	-33.81971361	151.0321525
CAMELLIA	Former Akzo Nobel site	6 Grand AVENUE	Chemical Industry	Contamination currently regulated under CLM Act	-33.82238826	151.0319264
CAMELLIA	Former Shell Clyde Refinery	Durham STREET	Other Industry	Contamination currently regulated under POEO Act	-33.82804924	151.0378966
CAMELLIA	Council Reserve	11B Grand AVENUE	Metal Industry	Regulation under CLM Act not required	-33.81850502	151.0302425
CAMELLIA	Veolia	37 Grand AVENUE	Chemical Industry	Contamination currently regulated under CLM Act	-33.81980027	151.0430689
CAMELLIA	Sydney Water	41 Grand AVENUE	Chemical Industry	Contamination formerly regulated under the CLM Act	-33.8217493	151.0453367
CAMELLIA	Maritime Services Board	33A Grand AVENUE	Metal Industry	Regulation under CLM Act not required	-33.81836086	151.0401249
CAMMERAY	Tunks Park	Brothers AVENUE	Landfill	Contamination formerly regulated under the CLM Act	-33.81734704	151.2113338
CAMMERAY	Coles Express Cammeray	477-483 Miller STREET	Service Station	Regulation under CLM Act not required	-33.82141124	151.2108658
CAMPBELLTOWN	Mobil Service Station	96-98 Queen STREET	Service Station	Regulation under CLM Act not required	-34.06407588	150.8170082
CAMPBELLTOWN	BP Macarthur Service Station	Cnr Blaxland ROAD and Campbelltown ROAD	Service Station	Regulation under CLM Act not required	-34.05312872	150.8234349

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
CAMPBELLTOWN	Former vehicle wrecking yard	38 Blaxland ROAD	Other Industry	Regulation under CLM Act not required	-34.06055735	150.8130598
CAMPERDOWN	Former Gee Graphics	27 Church STREET	Other Industry	Regulation under CLM Act not required	-33.88737747	151.1773616
CAMPERDOWN	O'Dea Reserve	Salisbury LANE	Landfill	Contamination formerly regulated under the CLM Act	-33.89072786	151.1736948
CAMPERDOWN	The Spruce	12-14 Marsden STREET	Other Industry	Regulation under CLM Act not required	-33.88720632	151.1784514
CAMPSIE	Budget Petroleum and adjacent property	403 Canterbury Road and 1 Una STREET	Service Station	Contamination currently regulated under CLM Act	-33.91605617	151.1086596
CAMPSIE	Former Sunbeam factory	60 Charlotte STREET	Other Industry	Contamination formerly regulated under the CLM Act	-33.92254225	151.1025796
CANLEY HEIGHTS	Former Caltex Canley Heights	368 Canley Vale ROAD	Service Station	Regulation under CLM Act not required	-33.88271081	150.9154176
CANLEY HEIGHTS	Caltex Canley Heights Service Station	280-286 Canley Vale ROAD	Service Station	Regulation under CLM Act not required	-33.88393501	150.9241656
CANLEY VALE	Coles Express Lansvale	99 Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-33.89295753	150.9606136
CANLEY VALE	Former Mobil Service Station	96 Canley Vale ROAD	Service Station	Regulation under CLM Act not required	-33.88591573	150.9369801
CANOWINDRA	BP-branded Jasbe Service Station	76 Rodd STREET	Service Station	Regulation under CLM Act not required	-33.56131773	148.6682805
CANTERBURY	Metro Petroleum Service Station	13-19 Canterbury ROAD	Service Station	Contamination currently regulated under CLM Act	-33.90783455	151.125207
CAPTAINS FLAT	Rail corridor adjacent to Lake George Mine	1 Copper Creek Road ROAD	Other Industry	Contamination currently regulated under CLM Act	-35.589996	149.437636
CARDIFF	7-Eleven Service Station	399 Main ROAD	Service Station	Regulation under CLM Act not required	-32.93391137	151.6562111
CARDIFF	Former Caltex Service Station	367 Main ROAD	Service Station	Regulation under CLM Act not required	-32.93761223	151.6577781
CARDIFF	Maneela Oval	Main ROAD	Other Industry	Regulation under CLM Act not required	-32.93018443	151.6435559

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
CARDIFF	Former Mobil Depot	7 Ranton STREET	Other Petroleum	Regulation under CLM Act not required	-32.94516764	151.6470387
CARDIFF	BP Service Station (Reliance Petroleum)	Corner Sturt and Main ROADS	Service Station	Regulation under CLM Act not required	-32.93792229	151.6569905
CARDIFF	Woolworths (former Mobil) Cardiff Service Station	43 Macquarie ROAD	Service Station	Regulation under CLM Act not required	-32.94118246	151.6578195
CARINGBAH	Adjacent to Spirent Australia	101-103 Cawarra ROAD	Other Industry	Contamination formerly regulated under the CLM Act	-34.03360747	151.1245577
CARINGBAH	Former Consumer Health Products Manufacturer	32-40 Cawarra ROAD	Other Industry	Regulation under CLM Act not required	-34.03024369	151.1277755
CARINGBAH	Caltex Lilli Pilli Service Station	477-481 Port Hacking ROAD	Service Station	Regulation under CLM Act not required	-34.05243807	151.1216353
CARINGBAH	7-Eleven Service Station	367 The KINGSWAY	Service Station	Regulation under CLM Act not required	-34.03948677	151.1203268
CARINGBAH	Spirent Australia	105 Cawarra ROAD	Other Industry	Contamination formerly regulated under the CLM Act	-34.03425343	151.1245092
CARINGBAH	BP Service Station Caringbah	54 Captain Cook DRIVE	Service Station	Regulation under CLM Act not required	-34.032986	151.1250656
CARLINGFORD	Caltex Service Station Carlingford	131 Pennant Hills ROAD	Service Station	Regulation under CLM Act not required	-33.78762398	151.0279422
CARLINGFORD	Caltex Service Station	797 Pennant Hills ROAD	Service Station	Regulation under CLM Act not required	-33.7757819	151.0516532
CARLTON	Shell Coles Express Service Station	277 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-33.9748579	151.1272732
CARRINGTON	Commercial Metals Company (CMC) Australia Pty Ltd	117-121 Bourke STREET	Other Industry	Regulation under CLM Act not required	-32.9148832	151.7677193
CARRINGTON	Carrington redevelopment site	11 Howden STREET	Other Industry	Regulation under CLM Act not required	-32.91309509	151.7625341
CARRINGTON	Forgacs Dockyard	81 Denison STREET	Other Industry	Regulation under CLM Act not required	-32.9207441	151.764816
CARRINGTON	NAT vacant land	Bourke STREET	Unclassified	Regulation under CLM Act not required	-32.91276029	151.7685894

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
CARRINGTON	Dyke Point Containment Cell	Dyke ROAD	Other Industry	Regulation under CLM Act not required	-32.91763422	151.7727101
CARRINGTON	Carrington Coal Tar Pavements	Bourke Street to Dyke ROAD	Other Industry	Regulation under CLM Act not required	-32.91441348	151.770271
CARRINGTON	Pasminco Ship Loader	Dyke Berth 2 (off Bourke Street) OTHER	Metal Industry	Regulation under CLM Act not required	-32.9148698	151.7716837
CARSS PARK	Vacant Property	334 Princes HIGHWAY	Other Industry	Regulation under CLM Act not required	-33.98628486	151.1133908
CARWELL	Cement Australia Carwell Creek Quarries	Quarry ROAD	Other Industry	Regulation under CLM Act not required	-32.85570277	151.119954
CASINO	Caltex Service Station and Depot Casino	28 & 32 Dyraaba STREET	Service Station	Regulation under CLM Act not required	-28.854816	153.04435
CASINO	Caltex Service Station	96 Centre STREET	Service Station	Regulation under CLM Act not required	-28.86539567	151.204836
CASINO	Former Gasworks	134-136 North STREET	Gasworks	Regulation under CLM Act not required	-28.86080712	153.0526043
CASINO	Woolworths Service Station Casino	130 Canterbury STREET	Service Station	Regulation under CLM Act not required	-28.86231341	153.0464642
CASINO	18 Beith Street, Casino	18 Beith STREET	Unclassified	Regulation under CLM Act not required	-28.84951426	153.0446585
CASINO	Corner Store	30 Barker STREET	Service Station	Regulation under CLM Act not required	-28.86316792	153.0389124
CASINO	Casino Roadhouse	86 Johnston STREET	Service Station	Contamination currently regulated under CLM Act	-28.85960698	153.0562429
CASULA	Caltex Casula Service Station	646 Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-33.95641262	150.8934783
CATHERINE HILL BAY	Catherine Hill Bay Coal Handling and Preparation Plant	1A Keene STREET	Other Industry	Regulation under CLM Act not required	-33.16120556	151.6302456
CESSNOCK	Caltex Cessnock Service Station	103-105 Wollombi (Cnr James Street) ROAD	Service Station	Regulation under CLM Act not required	-32.83936243	151.3430078
CESSNOCK	Former Mobil Service Station	102 Wollombi ROAD	Service Station	Regulation under CLM Act not required	-32.83844074	151.3436022

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
CESSNOCK	Former Service Station	2-4 Allandale ROAD	Service Station	Regulation under CLM Act not required	-32.83118911	151.3560677
CHARBON	Charbon Colliery	Charbon ROAD	Other Industry	Regulation under CLM Act not required	-32.92390131	149.9839098
CHARLESTOWN	7-Eleven Charlestown	273 Charlestown ROAD	Service Station	Regulation under CLM Act not required	-32.95802555	151.6897931
CHARLESTOWN	Caltex Service Station	81 Pacific HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-32.96715274	151.6955462
CHARLESTOWN	Caltex Woolworths (Former BP)	91-93 Pacific HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-32.96631255	151.6959086
CHARLESTOWN	Ausgrid Powell Street Depot	8 Powell STREET	Other Industry	Regulation under CLM Act not required	-32.95912375	151.6944136
CHARMHAVEN	Caltex Charmhaven Service Station	13-15 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.21655768	151.5091452
CHATSWOOD	Former Caltex Chatswood Service Station	607 Pacific HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-33.80396472	151.1795766
CHATSWOOD	Woolworths Chatswood	364-366 Eastern Valley WAY	Service Station	Regulation under CLM Act not required	-33.78667419	151.2010828
CHATSWOOD	Caltex Service Station Chatswood	572 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.80381271	151.1789656
CHATSWOOD	Auto Repairs	2 Devonshire STREET	Service Station	Regulation under CLM Act not required	-33.8015482	151.1859632
CHATSWOOD	Coles Express Service Station Chatswood	877-879 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.79182176	151.1804867
CHATSWOOD	Chatswood Toyota	728 Pacific HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-33.79654247	151.1776136
CHERRYBROOK	Caltex Service Station	67 Shepherds DRIVE	Service Station	Regulation under CLM Act not required	-33.72069183	151.0451415
CHESTER HILL	Former Orica, Chester Hill	127 Orchard ROAD	Chemical Industry	Contamination formerly regulated under the CLM Act	-33.8869823	150.9952873
CARSS PARK	Kogarah War Memorial Pool	78 Carwar AVENUE	Other Industry	Under assessment	-33.989511	151.120201

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
CHESTER HILL	Various industrial premises	191 Miller ROAD	Chemical Industry	Under assessment	-33.884093	150.995178
CHESTER HILL	Integrated Packaging	149 Orchard ROAD	Other Industry	Under assessment	-33.885701	150.99554
CHIPPENDALE	Cnr Regent Street & Wellington Street, Chippendale	Wellington STREET	Chemical Industry	Contamination currently regulated under CLM Act	-33.88668912	151.2015246
CHIPPING NORTON	Former Solchem (Mobil) Depot Chipping Norton	49-51 Riverside ROAD	Other Petroleum	Regulation under CLM Act not required	-33.91621314	150.9696948
CHIPPING NORTON	Former ACR	85-107 Alfred STREET	Chemical Industry	Contamination currently regulated under CLM Act	-33.92226795	150.9586496
CHISWICK	Former Sydney Wiremills (BHP) site	Blackwall Point ROAD	Other Industry	Regulation under CLM Act not required	-33.85131849	151.1369131
CHITTAWAY BAY	Former Caltex Chittaway Point	100 Chittaway ROAD	Service Station	Regulation under CLM Act not required	-33.32707555	151.4293546
CHULLORA	Chullora Railway Workshops	Worth STREET	Other Industry	Regulation under CLM Act not required	-33.88639388	151.0598201
CLARENCE	Clarence Colliery	Chifley ROAD	Other Industry	Regulation under CLM Act not required	-33.46450217	150.2522729
CLARENDON	Coles Express Clarendon Service Station	244 Hawkesbury Valley WAY	Service Station	Regulation under CLM Act not required	-33.6083729	150.7890956
CLEARFIELD	Former Pamplings Dip Site	Off Clearfield ROAD	Cattle Dip	Regulation under CLM Act not required	-29.16287185	152.882974
CLYBUCCA	BP Service Station	2171 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-30.93845014	152.9422791
CLYDE	7-Eleven Clyde	3 Parramatta Road, corner Harbord STREET	Service Station	Regulation under CLM Act not required	-33.83494433	151.0222628
CLYDE	4 Tennyson Street, Clyde NSW 2142	4 Tennyson STREET	Other Industry	Regulation under CLM Act not required	-33.83268843	151.0267361
COBAR	Former Caltex (Bogas) Service Station Cobar	56-58 Marshall STREET	Service Station	Regulation under CLM Act not required	-31.49793339	145.8346684
COBAR	Mckinnons Gold Mine	Cobar ROAD	Metal Industry	Regulation under CLM Act not required	-31.78179755	145.693

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
COBAR	Caltex Service Station Cobar	99 Marshall (formerly Cnr Barrier Highway and Bathurst Street) STREET	Service Station	Regulation under CLM Act not required	-31.49631924	145.8275727
COBAR	Caltex Service Station	Lot 10 Railway PARADE	Service Station	Regulation under CLM Act not required	-31.49350124	145.8442372
COFFS HARBOUR	BP Service Station	134-136 Pacific HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-30.29187037	153.1182106
COFFS HARBOUR	Dan Murphy's Coffs Harbour	10 Elbow STREET	Service Station	Regulation under CLM Act not required	-30.29439262	153.115069
COFFS HARBOUR	Mobil Service Station	314-316 Harbour DRIVE	Service Station	Contamination formerly regulated under the CLM Act	-30.3056983	153.131966
COFFS HARBOUR	Mobil Coffs Harbour Airport	Aviation DRIVE	Other Petroleum	Contamination formerly regulated under the CLM Act	-30.313385	153.1175018
COFFS HARBOUR	Woolworths Petrol	Park Beach Plaza, Arthur STREET	Service Station	Regulation under CLM Act not required	-30.28101154	153.132027
COFFS HARBOUR	Caltex Service Station	157 Orlando STREET	Service Station	Regulation under CLM Act not required	-30.28975334	153.1306354
COFFS HARBOUR	Coffs Harbour Slipway	38 Marina DRIVE	Other Industry	Regulation under CLM Act not required	-30.30325637	153.1441437
COFFS HARBOUR	Aussitel Backpackers Hostel	312 Harbour DRIVE	Service Station	Contamination formerly regulated under the CLM Act	-30.30585731	153.131645
COLEAMBALLY	Former Mobil Coleambally Depot	19 Bencubbin AVENUE	Other Petroleum	Regulation under CLM Act not required	-34.80279552	145.8945239
COLLARENEBRI	Former Shell Depot	Corner Narran Street and Queen STREET	Other Petroleum	Regulation under CLM Act not required	-29.54114772	148.5789365
COLONGRA	Munmorah Colliery	Scenic DRIVE	Other Industry	Regulation under CLM Act not required	-33.21297737	151.5416882
COLONGRA	Endeavour Colliery	Scenic DRIVE	Other Industry	Regulation under CLM Act not required	-33.21297737	151.5416882
COLYTON	Coles Express (former Ampol) Service Station	86-88 Great Western HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-33.77552363	150.7953105
CONCORD	Caltex Service Station	89 Parramatta ROAD	Service Station	Regulation under CLM Act not required	-33.86785624	151.0993769

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
CONCORD WEST	Caltex Service Station - 369 -375 Concord Road, Concord West	369-375 Concord ROAD	Service Station	Regulation under CLM Act not required	-33.84113835	151.0888843
CONDOBOLIN	BP-Branded Service Station	38 Denison Street, corner Molong STREET	Service Station	Regulation under CLM Act not required	-33.08520378	147.1524976
CONDOBOLIN	Former Mobil Depot	6 Burnett STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-33.08010515	147.1642972
CONDOBOLIN	Former Ampol Depot	Cnr Parkes Road and Goobang STREET	Service Station	Regulation under CLM Act not required	-33.08034753	147.1642436
CONDOBOLIN	Former Caltex Depot	Parkes ROAD	Service Station	Regulation under CLM Act not required	-33.08255593	147.1585922
CONDOBOLIN	Mobil Condobolin Depot Railway Siding	Railway Siding behind 6 Burnett STREET	Other Petroleum	Regulation under CLM Act not required	-33.08058612	147.164225
CONSTITUTION HILL	Sydney Water Land	Caloola ROAD	Unclassified	Regulation under CLM Act not required	-33.79781738	150.9697436
COOGEE	Caltex Coogee Service Station	146-148 Coogee Bay Road, corner Mount STREET	Service Station	Regulation under CLM Act not required	-33.91989232	151.2517454
COOKS HILL	Former Council Depot Cooks Hill	152 Bruce Street and 115 Corlette STREET	Other Industry	Regulation under CLM Act not required	-32.93525537	151.7641074
COOLAC	Coolac Service Station	Corner Hume Highway and Coleman STREET	Service Station	Regulation under CLM Act not required	-34.95435052	148.1595525
COOLAH	BP Depot (Reliance Petroleum)	72 (formerly 17-23) Cunningham STREET	Other Petroleum	Regulation under CLM Act not required	-31.82275896	149.7243171
COOLONGOLOOK	Caltex Service Station	Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-32.21648325	152.322813
COOMA	Caltex Cooma Service Station	44 Sharp Street, corner Baron STREET	Service Station	Regulation under CLM Act not required	-36.23323489	149.1304134
COOMA	Former Mobil Cooma Depot	2 Commissioner STREET	Other Petroleum	Regulation under CLM Act not required	-36.23266081	149.1346674
COOMA	Former Caltex Cooma Depot	2 Short STREET	Service Station	Regulation under CLM Act not required	-36.2338672	149.1348862
COOMA	Lowes Petroleum Cooma Depot and Service Station (Former BP Reliance Petroleum)	2-4 Sharp STREET	Other Petroleum	Regulation under CLM Act not required	-36.22819468	149.1357696

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
COOMA	Woolworths Caltex Cooma Service Station	Bombala Street Cnr Massie STREET	Service Station	Regulation under CLM Act not required	-36.23364626	149.1267469
COOMA	Former Shell Depot	48-50 Bradley STREET	Other Petroleum	Regulation under CLM Act not required	-36.23448955	149.1347987
COOMA	Former Shell Service Station	48-52 Sharp STREET	Service Station	Contamination formerly regulated under the CLM Act	-36.23350402	149.1299514
COONABARABRAN	Former Mobil Depot	49 Cowper STREET	Other Petroleum	Regulation under CLM Act not required	-31.27096226	149.2818461
COONABARABRAN	Shell Coles Express Service Station	2-6 John STREET	Service Station	Regulation under CLM Act not required	-31.27706775	149.27836
COONABARABRAN	Former Shell Coonabarabran CVRO	Corner Cowper St and Dawson St, formerly 51 Cowper STREET	Other Petroleum	Regulation under CLM Act not required	-31.27003745	149.281788
COONABARABRAN	Caltex Service Station	Cnr Dawson & Drummond STREET	Service Station	Regulation under CLM Act not required	-31.26994941	149.28183
COONABARABRAN	Caltex Service Station	85-87 John STREET	Service Station	Regulation under CLM Act not required	-31.27231215	149.2771297
COONAMBLE	Former Shell Coonamble Depot	Corner Aberford Street and Quambone ROAD	Other Petroleum	Regulation under CLM Act not required	-30.95349182	148.3793432
COONAMBLE	Caltex Service Station	Quambone ROAD	Service Station	Regulation under CLM Act not required	-30.95410067	148.3792167
COORANBONG	Former Poultry Farm - 91 Alton Road, Cooranbong	64 - 98 Alton ROAD	Unclassified	Regulation under CLM Act not required	-33.06860138	151.4512156
COORANBONG	Avondale Auto Centre	679 Freemans DRIVE	Service Station	Regulation under CLM Act not required	-33.06968809	151.4636293
COOTAMUNDRA	Former BP Depot	1-5 Murray STREET	Other Petroleum	Regulation under CLM Act not required	-34.62915841	148.0306962
COOTAMUNDRA	Caltex Service Station	26-34 Hovell STREET	Service Station	Regulation under CLM Act not required	-34.63624703	148.0347479
COOTAMUNDRA	Former Caltex Depot	219 Sutton STREET	Other Petroleum	Regulation under CLM Act not required	-34.65126548	148.0145283
COOTAMUNDRA	Former Ampol Service Station	72 Parker STREET	Service Station	Regulation under CLM Act not required	-34.63471008	148.0296112

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
COOTAMUNDRA	Cootamundra Gasworks	140-146 Hovell STREET	Gasworks	Contamination currently regulated under CLM Act	-34.64572841	148.0255049
COOTAMUNDRA	Former Amoco Depot	68-72 Hovell STREET	Other Petroleum	Contamination currently regulated under CLM Act	-34.63871124	148.0321134
COOTAMUNDRA	Former Ampol Cootamundra Rail Siding	Back Brawlin ROAD	Other Petroleum	Regulation under CLM Act not required	-34.65326425	148.0143068
CORAMBA	Martin Street	End of Martin Street and adjacent car park OTHER	Service Station	Ongoing maintenance required to manage residual contamination (CLM Act)	-30.22125208	153.0156997
CORNWALLIS	532 Cornwallis Road, Cornwallis	532 Cornwallis ROAD	Other Industry	Regulation under CLM Act not required	-33.57473895	150.7792839
COROWA	Corowa Shire Council Works Depot	24 Poseidon ROAD	Other Petroleum	Regulation under CLM Act not required	-35.98807923	146.3652266
COROWA	Former Ampol Corowa	10 Bow STREET	Service Station	Regulation under CLM Act not required	-35.99364786	146.3901259
COROWA	Cignall Corowa	280 Hume STREET	Service Station	Under preliminary investigation order	-36.00996015	146.3760437
CORRIMAL	Woolworths Petrol - Corrimal	275 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.37527426	150.8962637
CORRIMAL	7-Eleven Corrimal	138-146 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.36986818	150.8978241
COWRA	Landmark Fertiliser Storage Facility	Corner Young Road & Waratah STREET	Chemical Industry	Regulation under CLM Act not required	-33.84321832	148.6722578
COWRA	Lowes Petroleum (former BP Cowra Depot)	12 Campbell STREET	Other Petroleum	Regulation under CLM Act not required	-33.83803706	148.6977873
COWRA	Former Gasworks	30 Brougham STREET	Gasworks	Contamination currently regulated under CLM Act	-33.8389659	148.6963482
COWRA	Shell Depot	34 Brougham STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-33.83913341	148.6973491
CRANGAN BAY	Big T Roadhouse	555 and 565 Pacific HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-33.17306517	151.6084446
CREMORNE	Shell Coles Express Service Station	225 Military ROAD	Service Station	Regulation under CLM Act not required	-33.83063306	151.226223

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
CRESTWOOD	Former Caltex Depot Queanbeyan	36 Kendall (Cnr Stephens Rd) AVENUE	Other Petroleum	Regulation under CLM Act not required	-35.34615546	149.207807
CRESTWOOD	Former BP Queanbeyan	64 Uriarra ROAD	Service Station	Regulation under CLM Act not required	-35.34646177	149.2246263
CRONULLA	Breen Holdings	Bate Bay ROAD	Other Industry	Regulation under CLM Act not required	-34.03861737	151.1614114
CROWS NEST	Caltex Service Station	111-121 Falcon STREET	Service Station	Regulation under CLM Act not required	-33.82868236	151.2060317
CROYDON	Caltex Service Station	404-410 Liverpool ROAD	Service Station	Regulation under CLM Act not required	-33.88853994	151.115879
CROYDON	BP Ashfield	584 Parramatta ROAD	Service Station	Regulation under CLM Act not required	-33.87399409	151.1267296
CROYDON PARK	Mobil Service Station	334 Georges River ROAD	Service Station	Regulation under CLM Act not required	-33.89771626	151.0999194
CULCAIRN	Caltex Service Station	2883 Olympic HIGHWAY	Service Station	Regulation under CLM Act not required	-35.67441635	147.0356845
CULLEN BULLEN	Baal Bone Colliery	Castlereagh HIGHWAY	Other Industry	Regulation under CLM Act not required	-33.27193875	150.0587194
CUNDLETOWN	Caltex Service Station (1 Manning River Drive)	Old Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-31.89329598	152.5068225
CURL CURL	John Fisher Park	Corner Harbord and Abbott ROADS	Landfill	Regulation under CLM Act not required	-33.76622613	151.2860705
DACEYVILLE	Astrolabe Park	Cook AVENUE	Landfill	Regulation under CLM Act not required	-33.92963704	151.221773
DAPTO	RailCorp Dapto	(Rear of property) 12-14 Hamilton STREET	Other Industry	Regulation under CLM Act not required	-34.50045405	150.787353
DAPTO	Nicheinvest Pty Ltd (Former service station)	133-139 Lakelands DRIVE	Service Station	Regulation under CLM Act not required	-34.503288	150.803311
DARLINGHURST	Proposed Retail Unit	139-155 Palmer STREET	Unclassified	Regulation under CLM Act not required	-33.87504688	151.2168106
DARLINGHURST	Cross City Tunnel	Riley Street and William STREET	Service Station	Contamination was addressed via the planning process (EP&A Act)	-33.87424636	151.2158305

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
DARLINGHURST	18-28 Neild Avenue, Darlinghurst	18-28 Neild AVENUE	Landfill	Regulation under CLM Act not required	-33.87876581	151.2276546
DEE WHY	United Dee Why	148 Pacific Parade STREET	Service Station	Contamination currently regulated under CLM Act	-33.75569536	151.295963
DEE WHY	United Dee Why Pittwater	625 Pittwater (Cnr Mooramba Road) ROAD	Service Station	Under assessment	-33.7549455	151.2828442
DEE WHY	Caltex Service Station	793-797 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.74566596	151.2920719
DEE WHY	Dee Why Town Centre	Pittwater ROAD	Other Industry	Regulation under CLM Act not required	-33.753169	151.2875805
DEE WHY	Roche Products Dee Why Facility	Inman ROAD	Other Industry	Contamination currently regulated under CLM Act	-33.73893118	151.2870389
DENHAM COURT	Denham Court Caravan Park and Service Station	505 Campbelltown ROAD	Service Station	Contamination currently regulated under CLM Act	-33.98208395	150.8459471
DENILIQUN	Shell Coles Express Service Station	336 Victoria STREET	Service Station	Contamination formerly regulated under the CLM Act	-35.52373613	144.9807345
DENILIQUN	Former Deniliquin Gasworks	365, 369 and 329-331 George and 380 and 386 Charlotte STREET	Gasworks	Under assessment	-35.52670898	144.9634996
DENILIQUN	Landmark Fertiliser Storage Facility	99-101 Davidson STREET	Chemical Industry	Regulation under CLM Act not required	-35.52534735	144.975142
DENILIQUN	Former Deniliquin Caltex Depot	116-118 Hardinge (Cnr Wood St) STREET	Service Station	Regulation under CLM Act not required	-35.53196985	144.9544597
DENILIQUN	BP Depot (Reliance Petroleum)	125 - 127 Hardinge STREET	Service Station	Regulation under CLM Act not required	-35.53222124	144.9517397
DENILIQUN	Former Shell Depot	143-147 Napier STREET	Other Petroleum	Regulation under CLM Act not required	-35.5342355	144.953169
DENMAN	Former Industrial Site	10 Fontana WAY	Metal Industry	Regulation under CLM Act not required	-32.37945456	150.6868239
DENMAN	Former Industrial Site	9 Fontana WAY	Metal Industry	Regulation under CLM Act not required	-32.37911159	150.6869866
DORA CREEK	Former Service Station	4 Doree PLACE	Service Station	Regulation under CLM Act not required	-33.08452746	151.502415

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
DOUBLE BAY	64 Suttie Road, Double Bay NSW 2028	64 Suttie ROAD	Other Industry	Regulation under CLM Act not required	-33.885207	151.247259
DOYALSON	Part Lot 3 DP 259306	Off David STREET	Other Industry	Regulation under CLM Act not required	-33.20436131	151.5232558
DOYALSON	Munmorah Power Station	(Central Coast Highway) Scenic DRIVE	Unclassified	Regulation under CLM Act not required	-33.20678347	151.540795
DOYALSON	Mannering Colliery (formerly Wyee)	Rutleys ROAD	Other Industry	Regulation under CLM Act not required	-33.17179576	151.5419248
DOYALSON NORTH	Caltex Service Station	235 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.18501024	151.5526114
DOYALSON NORTH	Shell Coles Express Service Station	260-270 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.18636608	151.5482399
DRUMMOYNE	Coles Express Service Station Drummoyne (Eastbound)	36-46 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.85576628	151.1593519
DRUMMOYNE	Former Dry Cleaners	225 Victoria ROAD	Chemical Industry	Regulation under CLM Act not required	-33.8507152	151.1537113
DRUMMOYNE	Coles Express Service Station Drummoyne South (Westbound)	39-45 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.85606575	151.1589061
DRUMMOYNE	Caltex Service Station	191-195 Lyons ROAD	Service Station	Regulation under CLM Act not required	-33.85699216	151.1460356
DUBBO	BP Reliance Petroleum Service Station (Former Mobil Depot)	107 Erskine STREET	Other Petroleum	Regulation under CLM Act not required	-32.24441287	148.6111704
DUBBO	Dubbo Police Station	143 Brisbane STREET	Other Petroleum	Regulation under CLM Act not required	-32.24652288	148.6034702
DUBBO	Shell Coles Express Service Station	131-133 Cobra STREET	Service Station	Regulation under CLM Act not required	-32.25511317	148.6126147
DUBBO	Shell Coles Express Service Station	45-49 Whylandra STREET	Service Station	Regulation under CLM Act not required	-32.2474598	148.5932769
DUBBO	Former Mobil depot	40-44 Morgan STREET	Other Petroleum	Regulation under CLM Act not required	-32.23912277	148.6182711
DUBBO	Caltex Service Station, Dubbo	60 Windsor PARADE	Service Station	Regulation under CLM Act not required	-32.25459322	148.6318

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
DUBBO	BP-Branded Service Station Dubbo West	51-63 Whylandra STREET	Service Station	Regulation under CLM Act not required	-32.24827657	148.5927084
DUBBO	Lowes Petroleum (BP-Branded) Depot, Dubbo	105 Erskine STREET	Service Station	Regulation under CLM Act not required	-32.24423247	148.6101676
DUBBO	Inland Petroleum (Former Shell) Depot	109 Erskine STREET	Other Petroleum	Regulation under CLM Act not required	-32.24470512	148.6124108
DUBBO	Former Caltex Depot	Phillip (corner Fitzroy) STREET	Service Station	Regulation under CLM Act not required	-32.24534863	148.6150144
DUBBO	Caltex Service Station	119 Bourke STREET	Service Station	Regulation under CLM Act not required	-32.24336464	148.6091931
DUBBO	Former Ambulance Station	165 Brisbane STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-32.24850755	148.6031749
DUBBO	United (former Volume Plus) Service Station	219-223 Cobra STREET	Service Station	Regulation under CLM Act not required	-32.2565155	148.6228586
DUBBO	Caltex Service Station, Dubbo	Cnr Brisbane Street and Cobra STREET	Service Station	Contamination currently regulated under CLM Act	-32.25322183	148.603164
DULWICH HILL	Former Tyre Recapping	115-117 Constitution ROAD	Other Industry	Regulation under CLM Act not required	-33.90300876	151.1387724
DULWICH HILL	Denison Road Playground	194 Denison ROAD	Landfill	Regulation under CLM Act not required	-33.90121956	151.1404637
DUNEDOO	Former Shell Depot Dunedoo	Cnr Bolaro and Redbank STREET	Other Petroleum	Regulation under CLM Act not required	-32.01565761	149.3922418
DUNOGG	Lot 54 Common Rd	54 Common ROAD	Unclassified	Regulation under CLM Act not required	-32.39490989	151.739821
DUNOGG	Former HWC Maintenance Depot for Civil Engineering Works	86 Abelard STREET	Other Industry	Regulation under CLM Act not required	-32.40429396	151.7514073
DUNMORE	Equestrian Centre	71 Fig Hill LANE	Unclassified	Regulation under CLM Act not required	-34.62313393	150.8421544
DURAL	Caltex Dural Service Station	917-923 Old Northern ROAD	Service Station	Regulation under CLM Act not required	-33.68312075	151.0287519
DURAL	BP Dural Service Station	580 Old Northern ROAD	Service Station	Regulation under CLM Act not required	-33.69569985	151.0283357

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
DURAL	Caltex Service Station	530 Old Northern ROAD	Service Station	Regulation under CLM Act not required	-33.69348472	151.0202716
DURAL	Woolworths Service Station	532 Old Northern ROAD	Service Station	Regulation under CLM Act not required	-33.69348472	151.0202716
DURI	Duri Store	13 Railway AVENUE	Service Station	Contamination currently regulated under CLM Act	-31.21710021	150.8183675
EAGLE VALE	BP Service Station	Corner Eagle Vale Drive and Gould ROAD	Service Station	Regulation under CLM Act not required	-34.03128043	150.816363
EARLWOOD	RTA Land	3 Jackson PLACE	Unclassified	Contamination being managed via the planning process (EP&A Act)	-33.92724512	151.1433382
EARLWOOD	Wolli Creek Aqueduct	Unwin STREET	Unclassified	Regulation under CLM Act not required	-33.92788788	151.1480807
EARLWOOD	2, 4 & 6 Unwin Street Earlwood	2, 4 & 6 Unwin STREET	Landfill	Regulation under CLM Act not required	-33.92683761	151.149505
EAST BALLINA	Caltex East Ballina Service Station	34 Links AVENUE	Service Station	Regulation under CLM Act not required	-28.85009113	153.5829246
EAST GOSFORD	Presbyterian Aged Care Facility	8-18 Enid CRESCENT	Landfill	Regulation under CLM Act not required	-33.4376675	151.3577947
EAST GOSFORD	Mobil Service Station	44 Victoria STREET	Service Station	Contamination formerly regulated under the CLM Act	-33.43804781	151.353303
EAST GOSFORD	Hylton Moore Park	Althrop STREET	Landfill	Contamination currently regulated under CLM Act	-33.4352203	151.3601193
EAST MAITLAND	United Service Station East Maitland	164 (also known as 250) Newcastle STREET	Service Station	Regulation under CLM Act not required	-32.75245246	151.5869136
EAST MAITLAND	Woolworths Caltex Green Hills	14 Mitchell DRIVE	Service Station	Regulation under CLM Act not required	-32.76182386	151.5927863
EAST MAITLAND	Former Gasworks Site	Corner Melbourne Street and Brisbane STREET	Gasworks	Regulation under CLM Act not required	-32.74939199	151.5788783
EAST MAITLAND	Caltex East Maitland Service Station	Newcastle Road, Corner William STREET	Service Station	Regulation under CLM Act not required	-32.74883712	151.5829296
EAST TAMWORTH	Caltex Service Station	350-362 Armidale ROAD	Service Station	Regulation under CLM Act not required	-31.11401974	150.9613327

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
EASTERN CREEK	Caltex Service Station	M4 (Eastbound) MOTORWAY	Service Station	Regulation under CLM Act not required	-33.801607	150.8857989
EASTERN CREEK	Caltex Service Station M4 Motorway Westbound	M4 (Westbound) MOTORWAY	Service Station	Regulation under CLM Act not required	-33.80255701	150.8829211
EASTERN CREEK	Fulton Hogan Industries (formerly Pioneer Road Services)	Honeycomb DRIVE	Other Industry	Regulation under CLM Act not required	-33.80231274	150.8288299
EASTGARDENS	130-150 Bunnerong Road Eastgardens	130 - 150 Bunnerong ROAD	Other Industry	Regulation under CLM Act not required	-33.94230414	151.2248138
EASTLAKES	Former Shell Rosebery service station and adjacent land	275-279 Gardeners ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.92470279	151.2100722
EASTLAKES	Eastlakes Reserve	Evans AVENUE	Service Station	Contamination formerly regulated under the CLM Act	-33.92497291	151.2102725
EASTLAKES	Budget Petroleum Eastlakes	102 Maloney STREET	Service Station	Contamination formerly regulated under the CLM Act	-33.93120382	151.2054267
EASTLAKES	73 Gardeners Road	73 Gardeners ROAD	Unclassified	Regulation under CLM Act not required	-33.92541594	151.2182856
EASTWOOD	Former Mobil Service Station Eastwood	3-5 Trelawney (Cnr Rutledge St) STREET	Service Station	Regulation under CLM Act not required	-33.79273381	151.079584
EDEN	Caltex Service Station	159 Imlay STREET	Service Station	Regulation under CLM Act not required	-37.06324099	149.9044022
EDEN	Former Caltex Eden Depot	80-82 Imlay STREET	Service Station	Contamination currently regulated under CLM Act	-37.0570984	149.9038538
EDENSOR PARK	Caltex Bonnyrigg Service Station, Edensor Park	549 Elizabeth DRIVE	Service Station	Regulation under CLM Act not required	-33.88840816	150.8822609
EDENSOR PARK	7-Eleven (former Mobil) Service Station	615-621 Cowpasture Road, corner Elizabeth DRIVE	Service Station	Regulation under CLM Act not required	-33.88326139	150.865591
EDGECLIFF	BP-branded (former Coles Express) Service Station	73-85A New South Head ROAD	Service Station	Regulation under CLM Act not required	-33.8769602	151.2311617
EDGEWORTH	Caltex Service Station	662 Main ROAD	Service Station	Regulation under CLM Act not required	-32.92566329	151.6278888
EDGEWORTH	Caltex-Woolworths Branded Service Station Edgeworth	738-742 Main ROAD	Service Station	Regulation under CLM Act not required	-32.92455492	151.6202897

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
EMERALD BEACH	Shell Coles Express Woolgoolga Service Station	1850 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-30.16450856	153.1826673
EMERTON	7-Eleven Emerton	135-137 Popondetta ROAD	Service Station	Regulation under CLM Act not required	-33.74463908	150.8102251
EMPIRE BAY	Empire Bay Marina	16B Sorrento ROAD	Other Industry	Under assessment	-33.492505	151.362566
EMU HEIGHTS	7-Eleven Service Station	126 Old Bathurst ROAD	Service Station	Regulation under CLM Act not required	-33.74299098	150.6547098
EMU HEIGHTS	Woolworths Service Station	132 Old Bathurst ROAD	Service Station	Regulation under CLM Act not required	-33.7429739	150.6559655
EMU PLAINS	Woolworths Service Station	283 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.75371349	150.6530165
ENGADINE	Former Caltex Service Station	995 Old Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.06413459	151.0155734
ENGADINE	BP Service Station	1234 Princes HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-34.07735416	151.011121
ENGADINE	BP Branded Service Station	963 Old Princes HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-34.06428454	151.0167121
EPPING	7-Eleven (former Mobil) Service Station	246 Beecroft ROAD	Service Station	Regulation under CLM Act not required	-33.77073552	151.080581
ERINA	Coles Express Service Station Erina	211 The Entrance ROAD	Service Station	Regulation under CLM Act not required	-33.43547804	151.3850522
ERINA	7-Eleven Erina	214 The Entrance ROAD	Service Station	Regulation under CLM Act not required	-33.43494257	151.3879511
ERINA	7-Eleven Service Station	96 The Entrance ROAD	Service Station	Regulation under CLM Act not required	-33.43786868	151.3729331
ERINA	Jaycar Electronics Store	1 Aston ROAD	Other Petroleum	Contamination currently regulated under CLM Act	-33.434878	151.3845431
ERINA	Caltex Service Station	155 The Entrance ROAD	Service Station	Regulation under CLM Act not required	-33.43824871	151.3801096
ERMINGTON	Blue Star Ermington	700 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.80859566	151.0660133

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ERMINGTON	Caltex Service Station	562 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.81392814	151.0547543
ERSKINE PARK	Western Sydney Service Centre	25-55 Templar ROAD	Other Industry	Regulation under CLM Act not required	-33.81897822	150.7937394
ERSKINEVILLE	Redevelopment Site (Former Industrial Park) Erskineville	36/1A Coulson STREET	Other Industry	Regulation under CLM Act not required	-33.90325501	151.1855668
ERSKINEVILLE	Department of Housing	52 John STREET	Other Industry	Regulation under CLM Act not required	-33.8982925	151.1840284
ERSKINEVILLE	RailCorp land	Coulson STREET	Other Industry	Regulation under CLM Act not required	-33.90483899	151.1838804
ERSKINEVILLE	Lot 4/1A Coulson Street	Coulson STREET	Other Industry	Regulation under CLM Act not required	-33.90316549	151.1867963
ERSKINEVILLE	Area B - Public Domain / The Roadway	1A Coulson STREET	Other Petroleum	Regulation under CLM Act not required	-33.90499999	151.1873028
EUABALONG WEST	BP Euabalong West Depot (Reliance Petroleum)	12 Illewong STREET	Other Petroleum	Regulation under CLM Act not required	-33.05720426	146.3946386
EVANS HEAD	Evans Head Aerodrome	Memorial Airport DRIVE	Other Industry	Regulation under CLM Act not required	-29.10389976	153.4216791
EVANS HEAD	Bundjalung National Park	The Gap ROAD	Unclassified	Regulation under CLM Act not required	-29.24433977	153.3626472
EVANS HEAD	Evans Head Residential subdivision	Bounded by Currajong, Woodburn, Carrabeen Streets and Tuckeroo CRESCENT	Unclassified	Regulation under CLM Act not required	-29.1080969	153.4243577
EVELEIGH	Macdonaldtown Triangle	Burren STREET	Gasworks	Contamination being managed via the planning process (EP&A Act)	-33.89803492	151.186059
EVELEIGH	Australian Technology Park	Henderson ROAD	Other Industry	Regulation under CLM Act not required	-33.89634136	151.1944915
FAIRFIELD	Endeavour Energy Fairfield Zone Substation	22 Hedges STREET	Other Industry	Regulation under CLM Act not required	-33.86133019	150.9555899
FAIRFIELD EAST	Speedway-Branded Service Station Fairfield	251 The Horsley DRIVE	Service Station	Regulation under CLM Act not required	-33.8711661	150.9630077
FAIRFIELD HEIGHTS	7-Eleven Fairfield Heights	234 Hamilton (Cnr The Boulevard) ROAD	Service Station	Regulation under CLM Act not required	-33.87208474	150.9373134

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
FAIRY MEADOW	Woolworths Petrol Service Station	47 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.39399705	150.8925369
FAIRY MEADOW	Caltex Fuel Depot and adjoining land	46 Montague STREET	Service Station	Contamination formerly regulated under the CLM Act	-34.40050499	150.8953125
FAIRY MEADOW	Deynal (Seeman)	51-59 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.39437085	150.8924666
FARLEY	Farley Wastewater Treatment Works	Owlpen LANE	Other Industry	Regulation under CLM Act not required	-32.74431314	151.5194217
FASSIFERN	Newstan Colliery	Fassifern ROAD	Other Industry	Regulation under CLM Act not required	-32.97942521	151.5660046
FASSIFERN	Former Arsenic Smelter	Fassifern ROAD	Other Industry	Regulation under CLM Act not required	-32.99649819	151.5618283
FEDERAL	Federal General Store	3-6 Federal DRIVE	Service Station	Contamination formerly regulated under the CLM Act	-28.65190728	153.4552976
FENNELL BAY	Fennell Bay Public School	2 Bay ROAD	Unclassified	Under assessment	-32.991319	151.602224
FERN BAY	Former service station	37 Fullerton (1006 Nelson Bay Road) STREET	Service Station	Regulation under CLM Act not required	-32.87245004	151.7939904
FIVE DOCK	7-Eleven Five Dock Service Station	231-235 Great North ROAD	Service Station	Regulation under CLM Act not required	-33.86488376	151.130002
FIVE DOCK	Caltex Five Dock Service Station	47 Ramsay Road, corner Fairlight STREET	Service Station	Regulation under CLM Act not required	-33.87002804	151.1301835
FORBES	BP (Former Mobil) Depot Forbes	3-15 Union STREET	Other Petroleum	Regulation under CLM Act not required	-33.37751977	148.0101422
FORBES	Former Gasworks	24-26 Union STREET	Gasworks	Contamination currently regulated under CLM Act	-33.37752036	148.0090064
FORBES	Woolworths (Former Save on Fuel) Service Station	26 Dowling STREET	Service Station	Regulation under CLM Act not required	-33.38148764	148.0109845
FORBES	BP Service Station Forbes	29 Dowling STREET	Service Station	Regulation under CLM Act not required	-33.38121776	148.0100351
FORBES	Former Shell Depot	Stephen STREET	Other Petroleum	Regulation under CLM Act not required	-33.37704755	148.0103001

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
FORBES	Caltex Service Station Forbes	Parkes ROAD	Service Station	Regulation under CLM Act not required	-33.36333714	148.0223727
FORESTVILLE	BP Service Station	632 Warringah ROAD	Service Station	Contamination currently regulated under CLM Act	-33.75997969	151.2142944
FORESTVILLE	Shell Service Station	667 Warringah ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.76035336	151.2184929
FORRESTERS BEACH	Caltex Service Station	The Entrance Rd Cnr Bellevue ROAD	Service Station	Regulation under CLM Act not required	-33.40057818	151.4687631
FORSTER	Caltex Service Station	16-18 Lake STREET	Service Station	Regulation under CLM Act not required	-32.18306967	152.5162492
FORSTER	Shell (Kneebone's) Service Station	2-6 The Lakes WAY	Service Station	Regulation under CLM Act not required	-32.1946108	152.5145662
FORSTER	Enhance (Former Mobil) Service Station	86-88 Macintosh STREET	Service Station	Regulation under CLM Act not required	-32.19079468	152.5154847
FREDERICKTON	Former Service station	2-4 Great North ROAD	Service Station	Regulation under CLM Act not required	-31.03513998	152.8794105
FRENCHS FOREST	Former BP Service Station	Russell AVENUE	Service Station	Regulation under CLM Act not required	-33.75018093	151.2245005
FRENCHS FOREST	Former 7-Eleven / Mobil Beacon Hill Service Station, Frenchs Forest	312 Warringah ROAD	Service Station	Regulation under CLM Act not required	-33.75129647	151.2469656
FRESHWATER	Prime Service Station Freshwater	117 Harbord ROAD	Service Station	Regulation under CLM Act not required	-33.77286748	151.2794354
FRESHWATER	Former Dry Cleaners	121 Wyndora AVENUE	Other Industry	Regulation under CLM Act not required	-33.77425321	151.2821553
GEORGETOWN	Former Caltex Service Station	4 Georgetown ROAD	Service Station	Regulation under CLM Act not required	-32.91121105	151.7319693
GERRINGONG	Gerringong Cooperative	18 Belinda STREET	Other Petroleum	Regulation under CLM Act not required	-34.74518835	150.8181054
GILGANDRA	United (Former Mobil) Service Station	13 Castlereagh STREET	Service Station	Regulation under CLM Act not required	-31.71715641	148.6581574
GILGANDRA	Former Mobil Depot	2 Federation STREET	Other Petroleum	Regulation under CLM Act not required	-31.70937362	148.6522102

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GILGANDRA	Former Mobil Depot	20 Federation STREET	Other Petroleum	Regulation under CLM Act not required	-31.70771744	148.6514198
GILGANDRA	Caltex Service Station Gilgandra	6425 Newell HIGHWAY	Service Station	Regulation under CLM Act not required	-31.72545524	148.65281
GILLENBAH	Caltex (Former Mobil) Narrandera Service Station	16321 - 16335 Newell HIGHWAY	Service Station	Regulation under CLM Act not required	-34.76124219	146.5398604
GIRRAWEE	Industrial Galvanizers Girraween	20-22 Amax AVENUE	Metal Industry	Under assessment	-33.80500693	150.9396743
GIRRAWEE	Caltex Pendle Hill Service Station Girraween	602 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.80827518	150.9421511
GLADESVILLE	Caltex Service Station	287-295 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.8285374	151.1268639
GLADESVILLE	Road Reserve	Pittwater ROAD	Other Industry	Regulation under CLM Act not required	-33.81603924	151.1355085
GLADESVILLE	Caltex Service Station	116 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.83575319	151.1277863
GLADESVILLE	Glade View Business Park	436-484 Victoria ROAD	Other Industry	Contamination currently regulated under CLM Act	-33.82382382	151.1223941
GLADSTONE	Barbers Auto Port	52-53 Barnard STREET	Service Station	Under assessment	-31.023	152.948194
GLEBE	The Hill and Jubilee Embankment	12 Maxwell ROAD	Other Industry	Regulation under CLM Act not required	-33.87573032	151.1776027
GLEN INNES	Ambulance Station	106 Bourke STREET	Unclassified	Regulation under CLM Act not required	-29.73805854	151.7313138
GLEN INNES	Telstra Depot Glen Innes	126 Lambeth STREET	Unclassified	Regulation under CLM Act not required	-29.73565341	151.7278271
GLEN INNES	Caltex Glen Innes Service Station	Meade Street, corner Church STREET	Service Station	Regulation under CLM Act not required	-29.73699014	151.7379335
GLEN INNES	Former Shell Depot	Lambeth STREET	Other Petroleum	Regulation under CLM Act not required	-29.7376309	151.7276309
GLEN INNES	Former Caltex Depot, Glen Innes	Lot 1 DP785636 Lambeth STREET	Other Petroleum	Regulation under CLM Act not required	-29.73525485	151.7279167

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
GLEN INNES	Council-owned Laneway	Lot 2 Lang STREET	Gasworks	Regulation under CLM Act not required	-29.74385432	151.7323049
GLEN INNES	Caltex Service Station	Cnr Taylor Street & Church STREET	Service Station	Regulation under CLM Act not required	-29.73289036	151.739653
GLEN INNES	Caltex Glen Innes Paddock	9979 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-29.75608853	151.7344106
GLENBROOK	Caltex Service Station Glenbrook	78 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.76545234	150.6215447
GLENDALE	Coles Express Glendale	593 Main ROAD	Service Station	Regulation under CLM Act not required	-32.92709242	151.637946
GLENDALE	Settlement Pond	65 Glendale DRIVE	Unclassified	Regulation under CLM Act not required	-32.93411399	151.6483695
GLENDALE	Former Service Station	334-342 Lake ROAD	Unclassified	Regulation under CLM Act not required	-32.92775076	151.6433463
GLENDALE	Woolworths Service Station	Stockland DRIVE	Service Station	Regulation under CLM Act not required	-32.93250548	151.6404097
GLENDENNING	7-Eleven Plumpton Service Station Glendenning	1 Dublin Street, corner Richmond ROAD	Service Station	Regulation under CLM Act not required	-33.73988232	150.8603323
GLENORIE	Caltex Glenorie Service Station	912 Old Northern ROAD	Service Station	Regulation under CLM Act not required	-33.60550946	151.0126731
GLENTHORNE	Caltex Taree Service Station	Manning River DRIVE	Service Station	Regulation under CLM Act not required	-31.94415251	152.4703511
GLOUCESTER	Caltex Service Station	141 Church STREET	Service Station	Regulation under CLM Act not required	-32.01222514	151.9579521
GOOLMANGAR	Goolmangar General Store	851 Nimbin ROAD	Service Station	Regulation under CLM Act not required	-28.74694441	153.225401
GOONELLABAH	Former Invercauld Road Cattle Dip	161 Invercauld ROAD	Cattle Dip	Contamination formerly regulated under the CLM Act	-28.8308417	153.3098878
GOSFORD	United (former Mobil) Depot	Corner Merinee Road and Bowen CRESCENT	Other Petroleum	Regulation under CLM Act not required	-33.41523225	151.3257069
GOULBURN	Former Goulburn Gasworks	1 Blackshaw ROAD	Gasworks	Contamination currently regulated under CLM Act	-34.75313166	149.725032

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
GOULBURN	Goulburn Tannery	13 Gibson STREET	Other Industry	Regulation under CLM Act not required	-34.73756525	149.72059
GOULBURN	Caltex Depot	13 Sloane STREET	Other Petroleum	Regulation under CLM Act not required	-34.77423152	149.7088626
GOULBURN	Metro Goulburn Depot	23 Braidwood ROAD	Other Petroleum	Regulation under CLM Act not required	-34.76217302	149.7170897
GOULBURN	Caltex Service Station	72-74 Clinton STREET	Service Station	Regulation under CLM Act not required	-34.75728157	149.7135824
GOULBURN	Caltex Service Station	68 Goldsmith STREET	Service Station	Regulation under CLM Act not required	-34.75054432	149.7192098
GOULBURN	Former Shell Autoport Service Station	Corner Bruce Street and Lagoon STREET	Service Station	Regulation under CLM Act not required	-34.74807885	149.7266246
GOULBURN	Coles Express Service Station	90 Cowper (Corner Clinton Street) STREET	Service Station	Regulation under CLM Act not required	-34.75566648	149.7107831
GOULBURN	Mobil Service Station	129 Lagoon STREET	Service Station	Contamination formerly regulated under the CLM Act	-34.74618793	149.7330484
GOULBURN	Caltex Service Station	315 Auburn, corner Bradley STREET	Service Station	Regulation under CLM Act not required	-34.74942293	149.7232692
GOULBURN	Former Mobil Service Station Goulburn	422-426 Auburn STREET	Service Station	Regulation under CLM Act not required	-34.74869879	149.7229392
GRAFTON	Former General Store and Service Station Grafton	161 Turf STREET	Service Station	Regulation under CLM Act not required	-29.67412811	152.9336609
GRAFTON	Lowes Petroleum (BP-Branded) Depot, Grafton	13 Orara STREET	Other Petroleum	Regulation under CLM Act not required	-29.67016421	152.918161
GRAFTON	Former Shell Depot	2 Milton STREET	Other Petroleum	Regulation under CLM Act not required	-29.67723019	152.9205374
GRAFTON	Grafton Works Depot	26-28 Bruce STREET	Other Petroleum	Regulation under CLM Act not required	-29.67975507	152.9249357
GRAFTON	Former BP Service Station (Reliance Petroleum)	202 Queen STREET	Service Station	Regulation under CLM Act not required	-29.67645469	152.9423977
GRAFTON	Woolworths Petrol	75 - 77 Fitzroy Street Cnr of Duke STREET	Service Station	Regulation under CLM Act not required	-29.69221713	152.9343562

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
GRAFTON	Caltex Service Station	Corner Villiers St and Fitzroy STREET	Service Station	Regulation under CLM Act not required	-29.69296308	152.9366431
GRAFTON	BP Service Station (Reliance Petroleum)	14 Villiers (Cnr Fitzroy) STREET	Service Station	Regulation under CLM Act not required	-29.69345456	152.9373123
GRAFTON	Former Mobil Depot Grafton	2-16 Bruce STREET	Other Petroleum	Regulation under CLM Act not required	-29.68093591	152.9231289
GRAFTON	Caltex Service Station	179 Prince STREET	Service Station	Regulation under CLM Act not required	-29.68600117	152.9371093
GRANVILLE	Caltex Service Station	144 Parramatta ROAD	Service Station	Regulation under CLM Act not required	-33.83039605	151.0109216
GRANVILLE	Australand	15-17 Berry STREET	Other Industry	Regulation under CLM Act not required	-33.83600073	151.0211988
GRANVILLE	Woolworths Service Station Granville	158 Clyde STREET	Service Station	Regulation under CLM Act not required	-33.84623338	151.0124885
GRANVILLE	Commercial Property	2B Factory STREET	Other Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.84173556	151.0165687
GRANVILLE	Old Granville Depot	23 Elizabeth STREET	Unclassified	Regulation under CLM Act not required	-33.83765925	151.008528
GRANVILLE	7-Eleven Service Station	154-160 Parramatta ROAD	Service Station	Regulation under CLM Act not required	-33.83022685	151.0101322
GRANVILLE	A'Becketts Creek	Albert STREET	Unclassified	Contamination currently regulated under POEO Act	-33.82735776	151.0112255
GREEN POINT	7-Eleven Green Point	388-390 Avoca DRIVE	Service Station	Under assessment	-33.4623258	151.3627093
GREENACRE	Former Plating Works	12 Claremont STREET	Unclassified	Regulation under CLM Act not required	-33.89992254	151.0386128
GREENACRE	7-Eleven (former Mobil) Service Station	301-305 Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-33.90524488	151.0419971
GREENACRE	Caltex Service Station	87 - 91 Roberts ROAD	Service Station	Regulation under CLM Act not required	-33.90461089	151.0648581
GREENACRE	Coles Greenacre	13-19 Boronia ROAD	Other Industry	Regulation under CLM Act not required	-33.9061123	151.0561759

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
GREENWICH	Gore Creek Reserve - Drainage Line	St Vincents ROAD	Other Industry	Regulation under CLM Act not required	-33.82888693	151.1819101
GRENFELL	Former SRA Fuel Depot	Grafton STREET	Other Petroleum	Regulation under CLM Act not required	-33.89351237	148.1560188
GRENFELL	Grenfell Gasworks	Corner Gooloogong Road & Bourke STREET	Gasworks	Regulation under CLM Act not required	-33.89006016	148.1615443
GRETA	Coles Express Greta	122 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-32.67656357	151.3872818
GRETA	redevelopment site	112-114 High STREET	Other Industry	Regulation under CLM Act not required	-32.67706709	151.3876682
GRETA	Former landfill	Hollingshed ROAD	Landfill	Regulation under CLM Act not required	-32.66705287	151.3923474
GREYSTANES	Metro Branded (former Mobil) Service Station	73 Ettalong ROAD	Service Station	Regulation under CLM Act not required	-33.81822648	150.9513946
GRIFFITH	Liberty Depot (former Shell CVRO) Griffith	6-10 Mackay AVENUE	Other Petroleum	Regulation under CLM Act not required	-34.2910045	146.063824
GRIFFITH	Former Murrumbidgee Irrigation Depot	55-77 Banna AVENUE	Other Industry	Regulation under CLM Act not required	-34.28858242	146.0567509
GRIFFITH	Mobil Depot - Griffith Airport	Off Remembrance DRIVE	Other Petroleum	Regulation under CLM Act not required	-34.25618872	146.0620449
GRIFFITH	Former Ampol Depot	32-34 Mackay AVENUE	Other Petroleum	Regulation under CLM Act not required	-34.2933331	146.0679503
GRIFFITH	Caltex Service Station and Depot	2-4 Mackay AVENUE	Service Station	Regulation under CLM Act not required	-34.2908766	146.0630815
GRIFFITH	Former Landmark Fertiliser Storage Facility	2-8 Jensen ROAD	Chemical Industry	Regulation under CLM Act not required	-34.29365599	146.0536413
GRIFFITH	Belford Petroleum (former Mobil) Depot	30 Banna AVENUE	Service Station	Regulation under CLM Act not required	-34.29042827	146.0595497
GRIFFITH	Former BP Service Station (Reliance Petroleum)	81 Banna AVENUE	Service Station	Regulation under CLM Act not required	-34.28851251	146.0540815
GUILDFORD	7-Eleven Service Station Guildford West	176 Fowler ROAD	Service Station	Regulation under CLM Act not required	-33.85149493	150.9722491

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
GULGONG	Lowes Petroleum (former BP) Depot Gulgong	6 Railway STREET	Other Petroleum	Regulation under CLM Act not required	-32.35950625	149.5461499
GULGONG	The Oval Site	Queen STREET	Unclassified	Regulation under CLM Act not required	-32.36169815	149.531075
GULMARRAD	BP Service Station Maclean	3976 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-29.48537407	153.2004311
GUMLY GUMLY	Caltex Service Station	3723 Sturt HIGHWAY	Service Station	Regulation under CLM Act not required	-35.13590309	147.4424551
GUMLY GUMLY	Brick Kiln Reserve	Eunony Bridge ROAD	Landfill	Regulation under CLM Act not required	-35.12098411	147.4196309
GUNDAGAI	Former Mobil Depot	98 Mount STREET	Other Petroleum	Regulation under CLM Act not required	-35.08206783	148.096221
GUNNEDAH	Caltex Service Station	21 Abbott STREET	Service Station	Regulation under CLM Act not required	-30.98021001	150.2561856
GUNNEDAH	Former Shell Depot Gunnedah	85-89 Barber STREET	Other Petroleum	Regulation under CLM Act not required	-30.97949284	150.2507401
GUNNEDAH	Mobil Gunnedah Depot	16-24 Wentworth STREET	Other Petroleum	Regulation under CLM Act not required	-30.98428725	150.260609
GUNNEDAH	BP Depot Gunnedah	103 Mathias ROAD	Other Petroleum	Contamination currently regulated under CLM Act	-30.96665001	150.2326526
GUNNEDAH	BP Service Station	Corner Conadilly Street & Henry STREET	Service Station	Contamination formerly regulated under the CLM Act	-30.98116266	150.2583066
GUNNEDAH	Mobil Service Station	341 Conadilly STREET	Service Station	Contamination formerly regulated under the CLM Act	-30.9807394	150.2578428
GUNNEDAH	Property NSW Site	35-37 Abbott STREET	Other Petroleum	Regulation under CLM Act not required	-30.9789841	150.25737
GUNNEDAH	Former Telstra Line Depot	81 Barber STREET	Other Petroleum	Regulation under CLM Act not required	-30.97933809	150.2503121
GUNNEDAH	Adjacent to Service Station	Intersection of Henry Street and Conadilly STREET	Service Station	Contamination formerly regulated under the CLM Act	-30.98072588	150.2582802
GUNNEDAH	Former Caltex Depot	61 Railway AVENUE	Other Petroleum	Contamination formerly regulated under the CLM Act	-30.97953242	150.2494457

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
GUNNING	Gunning Motors	56 Yass STREET	Service Station	Regulation under CLM Act not required	-34.78159326	149.2684791
GUYRA	Guyra Fourways Service Centre	87-89 Bradley STREET	Service Station	Regulation under CLM Act not required	-30.24580085	151.6701156
GUYRA	Caltex-branded Service Station	4352 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-30.20601937	151.6757291
GUYRA	StateRail land leased to Incitec	Starr ROAD	Other Industry	Regulation under CLM Act not required	-30.23157011	151.6707135
GWANDALAN	Metro Petroleum Gwandalan (Formerly Gwandalan Auto Care)	47 Orana ROAD	Service Station	Regulation under CLM Act not required	-33.13632941	151.5813396
GWANDALAN	Former Gwandalan Landfill	Kanangra DRIVE	Landfill	Regulation under CLM Act not required	-33.17497722	151.5917107
GYMEA	7-Eleven (former Mobil) Gynea Service Station	110 Gynea Bay ROAD	Service Station	Regulation under CLM Act not required	-34.03745848	151.0848547
GYMEA	Coles Express Kirrawee	470 Princes (Cnr The Boulevard) HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-34.02735302	151.0845079
GYMEA	Former Shell Service Station Gynea	Gynea Bay ROAD	Service Station	Regulation under CLM Act not required	-34.04129676	151.0841328
HABERFIELD	7-Eleven Haberfield	25-35 Parramatta ROAD	Service Station	Contamination currently regulated under CLM Act	-33.88794591	151.14287
HALEKULANI	Former Halekulani Landfill	Macleay DRIVE	Landfill	Regulation under CLM Act not required	-33.21446301	151.5527625
HAMILTON	SRA Land	10 Maitland ROAD	Unclassified	Regulation under CLM Act not required	-32.91994358	151.7512417
HAMILTON	Taxi Services	116 Tudor STREET	Service Station	Contamination formerly regulated under the CLM Act	-32.92351606	151.7454742
HAMILTON	Caltex Hamilton	59-63 Tudor STREET	Service Station	Regulation under CLM Act not required	-32.92498593	151.7509313
HAMILTON	Newcastle Toyota	65 Tudor STREET	Other Petroleum	Regulation under CLM Act not required	-32.925171	151.7504048
HAMILTON	Hamilton Bus Depot	Cnr Denison Street and Gordon AVENUE	Other Petroleum	Regulation under CLM Act not required	-32.92687413	151.7501743

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
HAMILTON NORTH	Shell Newcastle Terminal	5 Chatham ROAD	Other Petroleum	Contamination currently regulated under CLM Act	-32.91630469	151.7408712
HAMILTON NORTH	Former Black and Decker Site	56 Clyde STREET	Metal Industry	Contamination currently regulated under CLM Act	-32.91080413	151.7358236
HAMILTON NORTH	Hamilton Gasworks	1 Chatham ROAD	Gasworks	Contamination currently regulated under CLM Act	-32.91362741	151.7406241
HAMILTON NORTH	Former ELMA Site	54 Clyde STREET	Other Industry	Contamination currently regulated under CLM Act	-32.91145768	151.7367691
HARDEN	SRA Site	31 Aurvill ROAD	Unclassified	Regulation under CLM Act not required	-34.54998656	148.3689577
HARDEN	SRA Site	51 Whitton LANE	Unclassified	Contamination formerly regulated under the CLM Act	-34.55396035	148.3713349
HARDEN	South West Fuel Harden	294 Albury STREET	Service Station	Regulation under CLM Act not required	-34.55007021	148.3513821
HAROLDS CROSS	Lot 59, Vernelly Road, Harolds Cross NSW 2622	Lot 59, Vernelly ROAD	Other Industry	Regulation under CLM Act not required	-35.548918	149.604314
HARRIS PARK	Dalley Street Reserve	2A Dalley STREET	Other Industry	Regulation under CLM Act not required	-33.82749123	151.0097539
HARTLEY VALE	Former Shale Oil Refinery	Lot 52 Hartley Vale ROAD	Unclassified	Contamination currently regulated under CLM Act	-33.52766912	150.2417878
HASTINGS POINT	Coles Express Hastings Point	99 Tweed Coast ROAD	Service Station	Regulation under CLM Act not required	-28.36914103	153.5725676
HAY	SRA Land	429, 431, 435, 437 & 439 Murray STREET	Other Industry	Regulation under CLM Act not required	-34.49965611	144.840976
HAY	SRA Land	443 Murray STREET	Other Industry	Contamination formerly regulated under the CLM Act	-34.49966753	144.8410778
HAY	Former Shell Hay Depot	391 Murray STREET	Other Petroleum	Regulation under CLM Act not required	-34.50028195	144.8463999
HAY	Former Mobil Depot Hay	397-399 Murray STREET	Other Petroleum	Regulation under CLM Act not required	-34.50019184	144.8456578
HAY SOUTH	Caltex Service Station	429-431 Moama STREET	Service Station	Regulation under CLM Act not required	-34.52001427	144.8380121

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
HAZELBROOK	Caltex Service Station Hazelbrook	198 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.72106175	150.4520976
HEATHCOTE	Caltex Service Station	1344 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.08841066	151.0072048
HEATHCOTE	Caltex Service Station	1403 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.09059834	151.003752
HEATHCOTE	Shell Coles Express Service Station	1355 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.08780042	151.0069741
HEATHERBRAE	Bogas (Former Caltex) Service Station	3 Speedy Lock LANE	Service Station	Regulation under CLM Act not required	-32.78057822	151.7372135
HEATHERBRAE	Shell Coles Express Motto Farm Service Station	2137 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-32.79835449	151.7176284
HEXHAM	QR National - Hexham Precinct	179 & 3/67 Maitland ROAD	Other Industry	Regulation under CLM Act not required	-32.83474038	151.6821895
HEXHAM	Caltex Diesel Stop	360 Maitland ROAD	Service Station	Regulation under CLM Act not required	-32.82844873	151.6851063
HEXHAM	Cummins Newcastle Facility Hexham	21 Galleghan STREET	Other Industry	Regulation under CLM Act not required	-32.83186739	151.686709
HEXHAM	BP Service Station (Reliance Petroleum)	Corner Pacific Highway and Old Maitland ROAD	Service Station	Regulation under CLM Act not required	-32.82756403	151.6846929
HEXHAM	Former Forgacs Site	21 Sparke STREET	Chemical Industry	Contamination currently regulated under CLM Act	-32.85464558	151.6988053
HEXHAM	Caltex-Bogas Warehouse	239 Old Maitland ROAD	Service Station	Regulation under CLM Act not required	-32.82899942	151.6861849
HEXHAM	Industrial Galvanizers	312 Pacific HIGHWAY	Metal Industry	Contamination currently regulated under POEO Act	-32.83457186	151.6884941
HEXHAM	14 Sparke St Hexham	14 Sparke STREET	Metal Industry	Under assessment	-32.85394328	151.6960863
HILLSTON	Former BP Depot Hillston	141-143 Cowper STREET	Other Petroleum	Regulation under CLM Act not required	-33.48823546	145.5381623
HOLBROOK	Caltex Truckstop	Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-35.71332625	147.3207237

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
HOMEBUSH	Ausgrid Mason Park Substation	1 Underwood ROAD	Other Industry	Regulation under CLM Act not required	-33.85674677	151.0747044
HOMEBUSH BAY	SUEZ Waste Recycling Centre (WRC) and Cleanaway Liquid Waste Treatment Plant (LWTP)	Corner Pondage Link and Hill ROAD	Landfill	Regulation under CLM Act not required	-33.84359299	151.0593656
HOMEBUSH WEST	Caltex Service Station Homebush West	334-336 Parramatta ROAD	Service Station	Regulation under CLM Act not required	-33.8581543	151.0681261
HOMEBUSH WEST	Former Ford Landfill and Adjacent Land	22 Mandemar AVENUE	Landfill	Regulation under CLM Act not required	-33.86142424	151.0625556
HORNSBY	Midas Car Care Centre Hornsby	2A Linda STREET	Other Industry	Regulation under CLM Act not required	-33.70052215	151.1004786
HORNSBY	Coles Express Hornsby	194- 206 Pacific HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-33.7071993	151.0991452
HORNSBY	Hornsby Train Maintenance Centre	1B Stephen STREET	Other Industry	Regulation under CLM Act not required	-33.69370022	151.1035939
HOXTON PARK	Endeavour Energy Hoxton Park	490 Hoxton Park ROAD	Other Industry	Regulation under CLM Act not required	-33.92766437	150.8689069
HUNTERS HILL	Coles Express Hunters Hill	4 Ryde ROAD	Service Station	Regulation under CLM Act not required	-33.8317985	151.141655
HUNTERS HILL	Foreshore Land	Rear of 7, 9 & 11 Nelson PARADE	Other Industry	Contamination currently regulated under CLM Act	-33.84248362	151.1649249
HUNTERS HILL	7, 9 and 11 Nelson Parade Hunters Hill	7, 9 and 11 Nelson PARADE	Other Industry	Regulation under CLM Act not required	-33.84220148	151.1649724
HURLSTONE PARK	Former Telstra Depot	82 Canterbury ROAD	Service Station	Regulation under CLM Act not required	-33.90803171	151.1258121
HURLSTONE PARK	Former Speedway Petroleum Service Station	610 - 618 New Canterbury ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.90541228	151.1322009
HURLSTONE PARK	7-Eleven Hurlstone Park	670 New Canterbury ROAD	Service Station	Regulation under CLM Act not required	-33.90510388	151.1299825
HURSTVILLE GROVE	Moore Reserve	Morshead DRIVE	Landfill	Contamination currently regulated under CLM Act	-33.97920603	151.0873578
INGLEBURN	7-Eleven Ingleburn	72 Cumberland Road, corner Oxford ROAD	Service Station	Regulation under CLM Act not required	-34.00041505	150.8679742

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
INVERELL	Former Shell Depot	25 Edward STREET	Other Petroleum	Regulation under CLM Act not required	-29.76151684	151.1182033
INVERELL	Former Service Station	20 Oliver STREET	Service Station	Regulation under CLM Act not required	-29.77229743	151.1152692
INVERELL	Former Caltex Depot Inverell	4 Edward STREET	Service Station	Regulation under CLM Act not required	-29.76123104	151.1147983
INVERELL	Former Mobil Inverell Depot	29-33 Edward STREET	Other Petroleum	Regulation under CLM Act not required	-29.76135322	151.1171412
INVERELL	Caltex Service Station	55-59 Ring STREET	Service Station	Regulation under CLM Act not required	-29.76204512	151.1141737
INVERELL	Former Mobil Service Station	Corner Otho Street and Henderson STREET	Service Station	Regulation under CLM Act not required	-29.7786926	151.1149921
INVERELL	Former Caltex Service Station	141 Otho STREET	Service Station	Regulation under CLM Act not required	-29.77819403	151.1145699
ISLINGTON	Caltex Service Station	240 Maitland ROAD	Service Station	Regulation under CLM Act not required	-32.91138644	151.7457701
ISLINGTON	Shell Pipeline Easement (vacant land)	24 Fern STREET	Other Petroleum	Regulation under CLM Act not required	-32.91706254	151.7473809
JAMISONTOWN	BP Service Station Jamisontown	124 - 128 Mulgoa ROAD	Service Station	Regulation under CLM Act not required	-33.76978323	150.6764977
JAMISONTOWN	Former Caltex Jamisontown	229-231 Mulgoa ROAD	Service Station	Regulation under CLM Act not required	-33.76661447	150.6784735
JAMISONTOWN	7-Eleven Service Station	92 Mulgoa ROAD	Service Station	Contamination currently regulated under CLM Act	-33.7667231	150.6796488
JANNALI	Former Mobil Service Station	121 Georges River ROAD	Service Station	Regulation under CLM Act not required	-34.01614613	151.0681921
JANNALI	Former IGA	541 Box ROAD	Other Industry	Regulation under CLM Act not required	-34.01602134	151.0660384
JENNINGS	Jennings Former Arsenic Poison Factory	Duke Street, Manor Street, and Ballandean STREET	Chemical Industry	Contamination currently regulated under CLM Act	-28.929342	151.9298622
JENNINGS	United Jennings Service Station	1823 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-28.9323235	151.9260334

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
JESMOND	Caltex Service Station	27 Bluegum ROAD	Service Station	Regulation under CLM Act not required	-32.9029287	151.691164
JINDABYNE	BP Service Station (Reliance Petroleum)	8 Kosciuszko ROAD	Service Station	Regulation under CLM Act not required	-36.41478692	148.6178882
JINDABYNE	Caltex Service Station	50 Kosciuszko ROAD	Service Station	Regulation under CLM Act not required	-36.41395847	148.6225113
JINGELIC	Former Jingellic School	3179 River ROAD	Other Industry	Regulation under CLM Act not required	-35.92649487	147.7010655
JUNEE	Subdivision Proposal	5858 Gundagai ROAD	Unclassified	Regulation under CLM Act not required	-34.87783587	147.6067578
JUNEE	United Junee Service Station	No. 118-134 BROADWAY	Service Station	Regulation under CLM Act not required	-34.86808328	147.5834883
JUNEE	Junee Railway Workshops	92 Harold STREET	Other Industry	Under assessment	-34.883786	147.57969
KANAHOOKA	Former Dapto Smelter Site, Kanahooka (redeveloped)	Off Kanahooka ROAD	Metal Industry	Regulation under CLM Act not required	-34.4941348	150.8224482
KANDOS	Cement Australia Kandos Cement Works	1 Jamison STREET	Other Industry	Regulation under CLM Act not required	-32.86399912	149.9779259
KANWAL	Kanwal General Store and Fuel Supplies and Adjacent Land	68 and part of 70 Craigie AVENUE	Service Station	Contamination currently regulated under CLM Act	-33.26310031	151.4817395
KANWAL	Former Bus and Truck Rental Yard	645-647 Pacific Highway HIGHWAY	Other Petroleum	Regulation under CLM Act not required	-33.26233802	151.4825469
KARIONG	Coles Express Kariong	6 Central Coast HIGHWAY	Service Station	Regulation under CLM Act not required	-33.43443192	151.2963401
KARIONG	Caltex Service Station	Lot 2 Langford DRIVE	Service Station	Regulation under CLM Act not required	-33.43934827	151.2935447
KARUAH	BP Roadhouse Karuah	403 Tarean ROAD	Service Station	Regulation under CLM Act not required	-32.65371781	151.9629963
KATOOMBA	Aldi Stores	201 Katoomba STREET	Service Station	Regulation under CLM Act not required	-33.71756625	150.3101649
KATOOMBA	Former Katoomba/Leura Gasworks	Megalong STREET	Gasworks	Contamination currently regulated under CLM Act	-33.71304308	150.3194624

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
KELLYVILLE	Caltex Service Station	3-5 Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.71436125	150.9602175
KELLYVILLE	BP Service Station Kellyville	19-23 Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.71280997	150.9590756
KELSO	Caltex Service Station Kelso	19 Sydney ROAD	Service Station	Regulation under CLM Act not required	-33.41904247	149.6023985
KELSO	BP Service Station (Reliance Petroleum)	63 Sydney ROAD	Service Station	Regulation under CLM Act not required	-33.41925328	149.6076677
KELSO	23 Zagreb Street, Kelso NSW	23 Zagreb STREET	Other Industry	Under assessment	-33.427151	149.61003
KEMBLA GRANGE	ShawCor Australia	66 West Dapto ROAD	Other Petroleum	Regulation under CLM Act not required	-34.46875328	150.8106326
KEMBLAWARRA	Griffins Bay, Lake Illawarra	Shellharbour ROAD	Landfill	Regulation under CLM Act not required	-34.49653984	150.8943776
KEMPS CREEK	Caltex-branded Service Station	1163 Mamre ROAD	Service Station	Regulation under CLM Act not required	-33.86972102	150.7966074
KEMPSEY	Kempsey Showground	19 Sea STREET	Unclassified	Contamination being managed via the planning process (EP&A Act)	-31.07334836	152.8308795
KEMPSEY	Former Shell Depot	43-51 Gladstone STREET	Other Petroleum	Regulation under CLM Act not required	-31.07500944	152.8346699
KEMPSEY	Former Mobil Depot	14 Hopetoun STREET	Other Petroleum	Regulation under CLM Act not required	-31.07603107	152.8350132
KEMPSEY	Shell Coles Express Service Station Kempsey	165 Smith STREET	Service Station	Regulation under CLM Act not required	-31.07036743	152.8461571
KEMPSEY	Mobil Depot	154 Belgrave STREET	Service Station	Regulation under CLM Act not required	-31.07965043	152.8326303
KEMPSEY	Liberty (Former Mobil) Service Station	108-112 Smith STREET	Service Station	Regulation under CLM Act not required	-31.07492508	152.8431945
KENSINGTON	7-Eleven Kensington	135 Anzac PARADE	Service Station	Regulation under CLM Act not required	-33.91035885	151.2228537
KENSINGTON	Former Ampol Service Station	76-82 Anzac PARADE	Service Station	Regulation under CLM Act not required	-33.9059246	151.2242891

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
KENSINGTON	Footpath adjacent to 10-20 Anzac Parade	10-20 Anzac PARADE	Service Station	Regulation under CLM Act not required	-33.9032124	151.2237836
KENSINGTON	Caltex Service Station	211-213 Anzac PARADE	Service Station	Regulation under CLM Act not required	-33.91460752	151.2251266
KENTHURST	Vacant Land	259 McCylmonts ROAD	Unclassified	Regulation under CLM Act not required	-33.61283529	150.9425303
KHANCOBAN	Khancoban Tip	Alpine WAY	Landfill	Regulation under CLM Act not required	-36.21994191	148.1542718
KIAMA	Former Gasworks	105 to 109 and 113 Shoalhaven STREET	Gasworks	Regulation under CLM Act not required	-34.67416881	150.8504143
KIAMA HEIGHTS	Former Mobil Service Station Kiama	7-9 South Kiama DRIVE	Service Station	Regulation under CLM Act not required	-34.69553931	150.8437977
KILLARA	7-Eleven Service Station (Former Mobil)	496 Pacific HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-33.77146554	151.1606903
KILLARA	Former Caltex Service Station	692B-694 Pacific HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-33.76306802	151.1550109
KILLARA	Killara Garage	544 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.76974164	151.1599696
KILLARA	Former BP Service Station Lindfield	478 Pacific HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-33.7719298	151.1613874
KILLARA	Land Adjacent to Former Service Station Site	684-684a, 690, 692 and 696 Pacific HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-33.7631019	151.1548963
KINCUMBER	Frost Reserve	Avoca DRIVE	Landfill	Contamination currently regulated under CLM Act	-33.47065695	151.3909044
KINGS PARK	Multi-Fill	14 Garling ROAD	Chemical Industry	Under assessment	-33.74478046	150.9111964
KINGS PARK	Former Dow Corning Factory	21 Tattersall ROAD	Chemical Industry	Contamination formerly regulated under the CLM Act	-33.75012653	150.9138477
KINGSFORD	Caltex Service Station	603-611 Anzac PARADE	Service Station	Regulation under CLM Act not required	-33.93435787	151.2371198
KINGSFORD	Coles Express Service Station Kingsford	58 Gardeners ROAD	Service Station	Regulation under CLM Act not required	-33.9250054	151.2257601

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
KINGSGROVE	Shell Coles Express Service Station	137 Kingsgrove ROAD	Service Station	Regulation under CLM Act not required	-33.93276948	151.099026
KINGSGROVE	Caltex Kingsgrove	351-357 Stoney Creek ROAD	Service Station	Regulation under CLM Act not required	-33.95132175	151.0926872
KINGSGROVE	State Transit Authority Depot	17-23 Richland STREET	Other Petroleum	Regulation under CLM Act not required	-33.93646086	151.0973617
KIRRAWEE	Ingal Civil Products	127-141 Bath ROAD	Metal Industry	Regulation under CLM Act not required	-34.03029516	151.0754469
KIRRAWEE	7-Eleven (former Mobil) Service Station	542-546 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.03238179	151.0758071
KIRRAWEE	Caltex-branded Kirrawee Service Station	(1-3 Waratah Street) 487 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.02915971	151.0808279
KOGARAH	Scarborough Park South	184R Production AVENUE	Landfill	Regulation being finalised	-33.97922253	151.140276
KOGARAH	Caltex Service Station	29 President AVENUE	Service Station	Regulation under CLM Act not required	-33.96516866	151.141145
KOGARAH	Former 7-Eleven Kogarah	734 Princes HIGHWAY	Service Station	Regulation being finalised	-33.96406472	151.1376011
KOGARAH	Woolworths Petrol Service Station	69 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-33.96330397	151.1371182
KOOLKHAN	Former Koolkhan Power Station	Summerland WAY	Other Industry	Regulation under CLM Act not required	-29.61688704	152.9300645
KOORAGANG	NPC, berths 2 and 3	Heron ROAD	Metal Industry	Regulation under CLM Act not required	-32.89260063	151.7742527
KOORAGANG	Kooragang Island Waste Facility	Off Cormorant ROAD	Metal Industry	Contamination currently regulated under POEO Act	-32.86901125	151.7377773
KOORAGANG	Orica Kooragang Island	15 Greenleaf ROAD	Chemical Industry	Contamination currently regulated under CLM Act	-32.89654619	151.7771372
KOORAGANG	Former Boral Timber Export Facility	16 Heron ROAD	Other Industry	Regulation under CLM Act not required	-32.89710295	151.7739966
KOORAGANG	Cleanaway Technical Services	19 Egret STREET	Other Industry	Regulation under CLM Act not required	-32.8812145	151.766282

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
KOORAGANG	Industrial Facility	39 Heron ROAD	Chemical Industry	Under assessment	-32.89106439	151.7784064
KOORAGANG	Vacant Land	Raven Street and Cormorant ROAD	Unclassified	Regulation under CLM Act not required	-32.88410199	151.7701334
KOORAGANG	Linx Logistics	240 Cormorant ROAD	Other Industry	Regulation under CLM Act not required	-32.87480951	151.7757352
KOORINGAL	Former Shell Wagga Depot	11-15 Lake Albert ROAD	Other Petroleum	Regulation under CLM Act not required	-35.12273113	147.3786005
KOORINGAL	Caltex Service Station	265-267 Lake Albert ROAD	Service Station	Regulation under CLM Act not required	-35.14078443	147.3755442
KOORINGAL	Caltex-branded (former Mobil) Service Station	24 Lake Albert ROAD	Service Station	Regulation under CLM Act not required	-35.12239591	147.3769936
KOSCIUSZKO	Smiggin Holes Snow Clearing Shed	Link ROAD	Landfill	Regulation under CLM Act not required	-36.39098211	148.4304981
KOSCIUSZKO	Khancoban Spoil Dump	Alpine WAY	Landfill	Regulation under CLM Act not required	-36.21982803	148.1527401
KOSCIUSZKO	Sawpit Creek landfill	13km from Jindabyne, off Kosciuszko ROAD	Landfill	Regulation under CLM Act not required	-36.34858097	148.5673374
KURMOND	BP Service Station	501 Bells Line of road ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.55099195	150.6912536
KURNELL	Former Phillips Imperial Chemicals site	260 Captain Cook DRIVE	Chemical Industry	Regulation under CLM Act not required	-34.02493837	151.1952149
KURNELL	Caltex Kurnell Terminal (refer also to ID23868)	2 Solander STREET	Other Petroleum	Contamination currently regulated under POEO Act	-34.0175214	151.2159572
KURNELL	Abbott Australasia	Captain Cook DRIVE	Chemical Industry	Contamination formerly regulated under the CLM Act	-34.02339937	151.19921
KURNELL	Former Caltex Kurnell Service Station	Corner Captain Cook Drive and Solander STREET	Service Station	Regulation under CLM Act not required	-34.01269846	151.2094347
KURRI KURRI	United Petroleum Service Station Kurri Kurri	279-281 Lang STREET	Service Station	Contamination formerly regulated under the CLM Act	-32.82047175	151.477646
KURRI KURRI	Kurri Kurri Smelter	Hart ROAD	Metal Industry	Regulation under CLM Act not required	-32.7873063	151.4828827

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
KYOGLÉ	Caltex Service Station	22-24 Summerland WAY	Service Station	Regulation under CLM Act not required	-28.61806766	153.003862
LAKE HAVEN	Caltex Service Station	Goobarabah Ave Cnr Gorokan DRIVE	Service Station	Regulation under CLM Act not required	-33.24337276	151.5065335
LAKEMBA	Former Lakemba Police Station	59 Quigg STREET	Unclassified	Regulation under CLM Act not required	-33.92199239	151.079412
LAKEMBA	Caltex Service Station - Corner Punchbowl Rd and Wangee Rd	81 Wangee ROAD	Service Station	Regulation under CLM Act not required	-33.91153044	151.073306
LAKEMBA	Caltex Service Station	961-967 Canterbury ROAD	Service Station	Regulation under CLM Act not required	-33.92671102	151.0814905
LAMBTÓN	Caltex Service Station	422 Newcastle ROAD	Service Station	Regulation under CLM Act not required	-32.9095592	151.7109684
LAMBTÓN	4-26 Verulam Road, Lambton NSW 2299	4-26 Verulam ROAD	Metal Industry	Under assessment	-32.911102	151.716676
LANE COVE	7-Eleven Service Station	203 Burns Bay ROAD	Service Station	Regulation under CLM Act not required	-33.81458334	151.1543844
LANE COVE	BP-branded Jasbe Service Station	62-70 Epping ROAD	Service Station	Regulation under CLM Act not required	-33.81108427	151.1641531
LANE COVE	Pacific Power	Sirius ROAD	Other Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.80701776	151.1449658
LANE COVE	Coles Express Service Station Burns Bay	254 Burns Bay ROAD	Service Station	Regulation under CLM Act not required	-33.81719214	151.1518774
LANE COVE	331-335 Burns Bay Road, Lane Cove NSW 2066	331 and 333 - 335 Burns Bay ROAD	Other Industry	Under assessment	-33.8211575	151.1493074
LANE COVE NORTH	Former Caltex Service Station	428-432 Mowbray ROAD	Service Station	Regulation under CLM Act not required	-33.80804563	151.1721538
LANE COVE NORTH	BP Artarmon Service Station, Lane Cove North	432 Pacific HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-33.8112038	151.175547
LANE COVE WEST	Caltex Lane Cove West	235-245 Burns Bay ROAD	Service Station	Regulation under CLM Act not required	-33.81719214	151.1518774
LANE COVE WEST	Ventemans Reach Bushland	Off Mars ROAD	Unclassified	Regulation under CLM Act not required	-33.80499552	151.1450719

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
LANE COVE WEST	Lovetts Reserve Walking Track	301B Burns Bay ROAD	Unclassified	Under preliminary investigation order	-33.82044223	151.1492125
LANSVALE	Mobil Service Station	44 Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-33.89172416	150.9656537
LAURIETON	Camden Haven Tyre and Brake Centre (Former Caltex Service Station)	461 Ocean DRIVE	Service Station	Regulation under CLM Act not required	-31.64367775	152.7977735
LAVENDER BAY	SRA Land	French STREET	Unclassified	Regulation under CLM Act not required	-33.84560621	151.2030148
LAVINGTON	Former Caltex Service Station	373-375 Wagga ROAD	Service Station	Regulation under CLM Act not required	-36.04797551	146.9385325
LAVINGTON	Caltex Service Station	436 Wagga (corner Dick Road) ROAD	Service Station	Regulation under CLM Act not required	-36.04500034	146.9444932
LAVINGTON	Former ERS liquid waste treatment and storage facility	819 Knights ROAD	Other Industry	Regulation under CLM Act not required	-36.06763885	146.942143
LEETON	Former Mobil Depot	108 Calrose STREET	Other Petroleum	Regulation under CLM Act not required	-34.55813326	146.3921296
LEETON	Caltex Service Station	1 Belah STREET	Service Station	Regulation under CLM Act not required	-34.55421752	146.3998431
LEETON	Yenda Producers (formerly Incitec) Leeton	1 - 2 Canal STREET	Other Petroleum	Regulation under CLM Act not required	-34.55184684	146.3862573
LEETON	Former Fuel Depot, Leeton	1-3 Short STREET	Other Petroleum	Regulation under CLM Act not required	-34.55253237	146.3864507
LEETON	United Leeton Service Station	110 Kurrajong AVENUE	Service Station	Regulation under CLM Act not required	-34.55573364	146.4099077
LEICHHARDT	SRA Land	10-11 Balmain ROAD	Other Industry	Contamination formerly regulated under the CLM Act	-33.8776803	151.1591041
LEICHHARDT	Former Kolotex site	22 George STREET	Other Industry	Contamination currently regulated under CLM Act	-33.88855307	151.1482106
LEICHHARDT	Former Labelcraft Site	30-40 George STREET	Chemical Industry	Contamination currently regulated under CLM Act	-33.88778798	151.1484773
LEICHHARDT	Leichhardt Bus Depot Area E	240 Balmain Road, corner City West LINK	Other Industry	Regulation under CLM Act not required	-33.87589727	151.1598073

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
LEICHHARDT	RailCorp Leichhardt	7 Darley ROAD	Other Industry	Regulation under CLM Act not required	-33.87520846	151.1539012
LENNOX HEAD	Former Caltex Lennox Head	Byron STREET	Service Station	Regulation under CLM Act not required	-28.79189328	153.5883225
LENNOX HEAD	Spoors Dip	13 Fig Tree Hill DRIVE	Cattle Dip	Contamination formerly regulated under the CLM Act	-28.78258175	153.5752527
LEPPINGTON	Coles Express Leppington	1443 Camden Valley WAY	Service Station	Regulation under CLM Act not required	-33.96631609	150.8154793
LEUMEAH	Caltex Service Station	6 Rudd ROAD	Service Station	Regulation under CLM Act not required	-34.05398325	150.8299209
LEURA	Former Leura Garage	126-128 Leura MALL	Service Station	Regulation under CLM Act not required	-33.7125311	150.3315386
LIDCOMBE	Metro Lidcombe (former Liberty)	134 John STREET	Service Station	Contamination currently regulated under POEO Act	-33.85456019	151.0468136
LIDDELL	Liddell Power Station	New England HIGHWAY	Other Industry	Regulation under CLM Act not required	-32.37393962	150.9756283
LIDSDALE	Angus Place Colliery	Wolgan ROAD	Other Industry	Regulation under CLM Act not required	-33.35274573	150.0996773
LIDSDALE	Kerosene Vale Colliery	Wolgan ROAD	Other Industry	Regulation under CLM Act not required	-33.38232515	150.0943561
LIDSDALE	Kerosene Vale Ash Repository	110 Skelly ROAD	Other Industry	Under assessment	-33.401113	150.090225
LIGHTNING RIDGE	Former Ambulance Station	18 - 42 Pandora STREET	Other Industry	Regulation under CLM Act not required	-29.43133877	147.9812981
LIGHTNING RIDGE	Caltex Service Station	Onyx Street, corner Morilla STREET	Service Station	Regulation under CLM Act not required	-29.42922885	147.9747954
LILLIAN ROCK	Former 'Peters Dip' Cattle Tick Dip Site	427 Lillian Rock ROAD	Cattle Dip	Regulation under CLM Act not required	-28.5314327	153.1556392
LINDFIELD	7-Eleven (former Mobil) Service Station	238 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.7788603	151.1689594
LISAROW	OneSteel Recycling	902A Pacific HIGHWAY	Metal Industry	Regulation under CLM Act not required	-33.38420179	151.3655856

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
LISMORE	Caltex Lismore Service Station	136 Woodlark STREET	Service Station	Regulation under CLM Act not required	-28.80807597	153.2807591
LISMORE	Shell Coles Express Service Station	100 Dawson STREET	Service Station	Regulation under CLM Act not required	-28.81140865	153.2800472
LISMORE	Former Shell Depot	116 Wilson STREET	Other Petroleum	Regulation under CLM Act not required	-28.81070081	153.2621577
LISMORE	Caltex Service Station	73-75 Dawson STREET	Service Station	Regulation under CLM Act not required	-28.80894415	153.2809619
LISMORE	Lismore Gasworks	Cnr John Street & Keen STREET	Gasworks	Contamination formerly regulated under the CLM Act	-28.81764489	153.2710196
LISMORE	SRA Land	Norco LANE	Unclassified	Regulation under CLM Act not required	-28.810742	153.2702306
LISMORE HEIGHTS	Coles Express Lismore Heights	426 Ballina ROAD	Service Station	Contamination currently regulated under CLM Act	-28.81068067	153.3053065
LISMORE HEIGHTS	Impacted land, below Beardow Street landslide	22 New Ballina ROAD	Unclassified	Regulation under CLM Act not required	-28.80410458	153.2939349
LISMORE HEIGHTS	Roadside Embankment (Beardow Street)	Between Beardow and 22 New Ballina ROAD	Unclassified	Regulation under CLM Act not required	-28.803874	153.293923
LITHGOW	Former Shell CVRO and Depot	77 Bridge Street and 6 Gas Works LANE	Other Petroleum	Regulation under CLM Act not required	-33.47995091	150.162216
LITHGOW	Lithgow Thales	4 Martini PARADE	Metal Industry	Contamination formerly regulated under the CLM Act	-33.48988084	150.141366
LITHGOW	Former Mobil Depot	353 Main STREET	Other Petroleum	Regulation under CLM Act not required	-33.48235166	150.1383012
LITHGOW	Former Gasworks	Mort STREET	Gasworks	Regulation under CLM Act not required	-33.47995167	150.1635401
LITHGOW	Jasbe BP-branded Service Station (Former Reliance Petroleum)	1106 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.48426647	150.134992
LITHGOW	Caltex Lithgow (Quota Park)	Adjacent to 1131 Great Western HIGHWAY	Unclassified	Regulation under CLM Act not required	-33.47927554	150.1366238
LIVERPOOL	AC McGrath (Wholesale) Pty Ltd	20 Shepherd Street and 6A & 6B Atkinson STREET	Other Industry	Regulation under CLM Act not required	-33.9320192	150.9236862

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
LIVERPOOL	Former Car Park	4 - 6 Rose STREET	Unclassified	Regulation under CLM Act not required	-33.93258955	150.9157936
LIVERPOOL	Woolworths Service Station	59-67 Orange Grove ROAD	Service Station	Regulation under CLM Act not required	-33.90711248	150.9178855
LIVERPOOL	68 Speed Street (former gasworks)	2A Mill ROAD	Gasworks	Regulation under CLM Act not required	-33.92992649	150.9224472
LOFTUS	BP Freedom Fuel Service Station Loftus	127 Loftus AVENUE	Service Station	Regulation under CLM Act not required	-34.04570765	151.0508004
LONG JETTY	Metro Petroleum Service Station Long Jetty	326 The Entrance ROAD	Service Station	Under assessment	-33.35897356	151.4847709
LONG JETTY	Caltex Service Station	431 The Entrance ROAD	Service Station	Regulation under CLM Act not required	-33.36022468	151.4826553
LONG JETTY	Westside Petroleum Service Station	290-294 The Entrance ROAD	Service Station	Contamination currently regulated under CLM Act	-33.35686757	151.4861479
LONG JETTY	7-Eleven (former Mobil) Service Station	184-186 The Entrance ROAD	Service Station	Regulation under CLM Act not required	-33.35089363	151.4924904
LONGUEVILLE	Caltex Service Station	5 Northwood ROAD	Service Station	Regulation under CLM Act not required	-33.82427366	151.1724497
LOXFORD	Kurri Kurri Wastewater Treatment Plant	McLeod ROAD	Other Industry	Under assessment	-32.800654	151.486764
LUCAS HEIGHTS	Harringtons Quarry	access from Little Forest ROAD	Landfill	Contamination currently regulated under CLM Act	-34.03555347	150.9751826
LUCAS HEIGHTS	IWC landfill	Little Forest ROAD	Landfill	Contamination formerly regulated under the CLM Act	-34.03214889	150.9753474
LUDDENHAM	Caltex Service Station	3019-3035 The Northern ROAD	Service Station	Regulation under CLM Act not required	-33.87536093	150.6888872
MACKSVILLE	Caltex Service Station	Pacific (22-24 Cooper Street) HIGHWAY	Service Station	Regulation under CLM Act not required	-30.70977455	152.9198448
MACLEAN	MacLean Outdoors	255 River STREET	Service Station	Regulation under CLM Act not required	-29.45782683	153.1970725
MACQUARIE FIELDS	Caltex Service Station	68 Harold STREET	Service Station	Regulation under CLM Act not required	-33.98557276	150.8933681

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MACQUARIE PARK	Caltex North Ryde Service Station	41-43 Epping ROAD	Service Station	Regulation under CLM Act not required	-33.79138236	151.1312248
MACQUARIE PARK	1-7 Waterloo Road, Macquarie Park	1-7 Waterloo ROAD	Other Petroleum	Regulation under CLM Act not required	-33.78806877	151.1332148
MACQUARIE PARK	Porters Creek Depot - Proposed Operations Centre Site	160 Wicks ROAD	Landfill	Regulation under CLM Act not required	-33.78581579	151.1367075
MACQUARIE PARK	De Burghs Cycleway - Lane Cove National Park	Riverside DRIVE	Other Petroleum	Regulation under CLM Act not required	-33.77668985	151.136542
MAITLAND	Maitland Gasworks	Charles STREET	Gasworks	Contamination currently regulated under CLM Act	-32.73603658	151.5578926
MAITLAND	Hannan and High Street	Hannan Street and High STREET	Service Station	Regulation under CLM Act not required	-32.72731682	151.5515673
MAITLAND	Coles Express Service Station	235 High STREET	Service Station	Regulation under CLM Act not required	-32.73923807	151.5620399
MALABAR	ANZAC Rifle Range former landfill	Franklin STREET	Landfill	Regulation being finalised	-33.95792671	151.2566373
MANDALONG	Mandalong Mine	Mandalong ROAD	Other Industry	Regulation under CLM Act not required	-33.11725583	151.4616452
MANGROVE MOUNTAIN	Poultry Litter Containment Pit site	258 Waratah ROAD	Unclassified	Regulation under CLM Act not required	-33.28917947	151.1672284
MANILLA	Tamworth Regional Council Works Depot - Manilla	73 River STREET	Other Petroleum	Regulation under CLM Act not required	-30.74879943	150.7181011
MANLY	Caltex Service Station	86 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.79306889	151.2858638
MANLY	Open Space at end of Stuart Street (Lot 1 DP544297)	End of Stuart STREET	Gasworks	Regulation under CLM Act not required	-33.8078063	151.2898273
MANLY	St Patrick's Estate	151 Darley ROAD	Unclassified	Regulation under CLM Act not required	-33.8044568	151.2938595
MANLY	Former Little Manly Point Gasworks	Stuart STREET	Gasworks	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.8081596	151.287697
MANLY VALE	Caltex Service Station Manly Vale	236-238 Condamine STREET	Service Station	Regulation under CLM Act not required	-33.78508231	151.2674386

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MANLY VALE	Former Landfill Addiscombe Road	Addiscombe ROAD	Landfill	Contamination currently regulated under CLM Act	-33.78307439	151.2747846
MANNERING PARK	Parkview General Store (a former service station)	2 Vales ROAD	Service Station	Regulation under CLM Act not required	-33.14753814	151.5387832
MANNERING PARK	Mannering Park Mini Mart	70 Vales ROAD	Service Station	Regulation under CLM Act not required	-33.15236501	151.5371767
MARAYONG	7-Eleven (former Mobil Blacktown West) Service Station Marayong	173 Richmond ROAD	Service Station	Regulation under CLM Act not required	-33.75472796	150.8913605
MARAYONG	Woolworths Petrol Service Station Marayong	Corner Vardys Road and Turbo ROAD	Service Station	Regulation under CLM Act not required	-33.7452356	150.9041601
MARDI	Former Mardi Landfill	70-90 McPherson ROAD	Landfill	Regulation under CLM Act not required	-33.29273289	151.4100941
MARKS POINT	Former Mobil Service Station (now 7-Eleven)	770-772 Pacific HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-33.05646268	151.6533795
MARKS POINT	Former Mobil Aviation Depot Belmont Airport	864 Pacific HIGHWAY	Other Petroleum	Regulation under CLM Act not required	-33.06657244	151.6497674
MAROUBRA	Coles Express Pagewood Service Station, Maroubra	299 Bunnerong PARADE	Service Station	Regulation under CLM Act not required	-33.94071282	151.2285063
MARRANGAROO	United (Former Mobil) Service Station Marrangaroo	394-398 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.45253322	150.1181023
MARRICKVILLE	Former Mobil Service Station	384 Illawarra ROAD	Service Station	Regulation under CLM Act not required	-33.91534969	151.1506717
MARRICKVILLE	TRW Steering and Suspension	22-28 Carrington ROAD	Other Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.92012667	151.1566181
MARRICKVILLE	Woolworths Petrol Service Station Marrickville	490 Illawarra ROAD	Service Station	Regulation under CLM Act not required	-33.91845177	151.1459951
MARRICKVILLE	RailCorp	361 Victoria ROAD	Other Industry	Regulation under CLM Act not required	-33.91404835	151.1557132
MARRICKVILLE	Mackey Park	Cnr Richardsons Crescent and Carrington ROAD	Landfill	Regulation under CLM Act not required	-33.9220263	151.1547903
MARRICKVILLE	Cooks River Aqueduct	Thornley STREET	Unclassified	Contamination formerly regulated under the CLM Act	-33.92224311	151.1479744

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MARRICKVILLE	2 Carrington Road	2 Carrington ROAD	Unclassified	Regulation under CLM Act not required	-33.91567088	151.1589931
MARRICKVILLE	Former Dry Cleaners and Loading Dock	Smidmore STREET	Other Industry	Contamination currently regulated under CLM Act	-33.90752498	151.1717761
MARSDEN PARK	226 Grange Avenue	226 Grange AVENUE	Unclassified	Regulation under CLM Act not required	-33.70259609	150.83825
MARSFIELD	Coles Express Service Station Marsfield	189 Epping ROAD	Service Station	Regulation under CLM Act not required	-33.77519246	151.1053691
MARULAN	BP Express Marulan (Northbound)	(Northbound) Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-34.7188332	149.9949547
MARULAN	BP Service Station	(Southbound) Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-34.71932066	150.0014827
MARYVILLE	7-Eleven Service Station	184-188 Hannell STREET	Service Station	Contamination currently regulated under CLM Act	-32.91336028	151.7579315
MASCOT	Former Zinc Smelter and Paint Manufacturing Facility	163 O'Riordan STREET	Metal Industry	Regulation under CLM Act not required	-33.92526513	151.1892582
MASCOT	Caltex Service Station	125 O'Riordan STREET	Service Station	Regulation under CLM Act not required	-33.92309169	151.1911539
MASCOT	Mascot Pioneer Plating	25-29 Ricketty STREET	Metal Industry	Contamination currently regulated under CLM Act	-33.92075288	151.1824801
MASCOT	Heritage Business Centre	5-9 Ricketty STREET	Unclassified	Regulation under CLM Act not required	-33.92029202	151.1816656
MASCOT	Telstra Exchange	904-922 Botany ROAD	Other Industry	Regulation under CLM Act not required	-33.9293166	151.1942777
MASCOT	Former Shell Service Station Mascot	746 Botany ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.92352295	151.1955852
MASCOT	Former Freight Distribution Facility (now High-Density Residential / Commercial)	19-33 Kent ROAD	Unclassified	Regulation under CLM Act not required	-33.9227711	151.1854202
MASCOT	Former Mascot Galvanising	336-348 King STREET	Metal Industry	Contamination currently regulated under CLM Act	-33.92902126	151.185874
MASCOT	Sokol Corporation	50-56 Robey STREET	Other Industry	Regulation under CLM Act not required	-33.93162265	151.1904955

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MASCOT	Linear Park	Off O'Riordan STREET	Landfill	Regulation under CLM Act not required	-33.92278693	151.1904751
MATRAVILLE	Port Botany Bus Depot	7 Bumborah Point ROAD	Other Petroleum	Regulation under CLM Act not required	-33.96880413	151.2255889
MATRAVILLE	Former Golden Fleece Terminal No2	151 Beauchamp ROAD	Other Petroleum	Contamination formerly regulated under the CLM Act	-33.95719404	151.2259884
MATRAVILLE	Former Rieco Incinerator	Kain AVENUE	Other Industry	Contamination being managed via the planning process (EP&A Act)	-33.95980534	151.2423679
MATRAVILLE	7-Eleven Service Station Matraville	515 Bunnerong ROAD	Service Station	Contamination currently regulated under CLM Act	-33.95943536	151.2317598
MATRAVILLE	Former Golden Fleece Terminal No1	133 -149 Beauchamp ROAD	Other Petroleum	Contamination formerly regulated under the CLM Act	-33.95776666	151.2248518
MATRAVILLE	Vacant Lot	3 Wilkes AVENUE	Other Industry	Regulation under CLM Act not required	-33.96006406	151.2431087
MATRAVILLE	Eastern Suburbs Memorial Park	12 Military ROAD	Chemical Industry	Regulation under CLM Act not required	-33.9719906	151.2274386
MAYFIELD	7-Eleven (Former Mobil) Service Station	412-416 Maitland ROAD	Service Station	Regulation under CLM Act not required	-32.89292005	151.7300948
MAYFIELD	Shell Coles Express Service Station	63-69 Maud STREET	Service Station	Regulation under CLM Act not required	-32.89358962	151.7221298
MAYFIELD	BHP Closure Site (Hunter River Sediments)	Bed Sediments of the Hunter adjacent to Lot 221 DP1013964 RIVER	Metal Industry	Contamination formerly regulated under the CLM Act	-32.89203741	151.7646702
MAYFIELD	Australian Tube Mills Newcastle Site	Industrial DRIVE	Metal Industry	Under assessment	-32.88835767	151.7450751
MAYFIELD	BHP Steel River	The Buffer Zone' extending directly adjacent to the Hunter River; near the Tourle Street Bridge STREET	Metal Industry	Contamination currently regulated under CLM Act	-32.8773556	151.7252427
MAYFIELD	Waratah Steel Mill	23 Frith STREET	Metal Industry	Regulation under CLM Act not required	-32.89426592	151.7257429
MAYFIELD	OneSteel (BHP)	Industrial DRIVE	Metal Industry	Contamination currently regulated under CLM Act	-32.88365878	151.7448793
MAYFIELD NORTH	Former BHP Steelworks (Closure site)	Bound by Hunter River, Selwyn Street & Industrial DRIVE	Metal Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-32.89436064	151.7590762

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MAYFIELD NORTH	OneSteel - Newcastle Wire, Rod and Bar Mills	141 & 151 Ingall STREET	Metal Industry	Under assessment	-32.89008485	151.752949
MAYFIELD NORTH	Former BHPB Supply site	Industrial DRIVE	Metal Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-32.88583061	151.7386157
MAYFIELD WEST	Stevenson Park landfill	2/559 Maitland ROAD	Landfill	Regulation under CLM Act not required	-32.88472556	151.7224791
MAYFIELD WEST	Koppers Coal Tar	East of Woodstock Street and Tourle STREET	Other Industry	Contamination currently regulated under POEO Act	-32.88592437	151.7361839
MAYFIELD WEST	Tourle Street Bridge Project	Tourle STREET	Landfill	Regulation under CLM Act not required	-32.88075518	151.7330073
MCDougalls Hill	Caltex Service Station	4949 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-32.54484714	151.1490757
MEADOWBANK	Former Council Works Depot	2 Parsonage STREET	Unclassified	Regulation under CLM Act not required	-33.82191421	151.0951974
MENAI	7-Eleven (Former Mobil) Service Station Menai	289 Menai ROAD	Service Station	Under assessment	-34.01579095	151.0131737
MENAI	Caltex Service Station Menai	1 Carter Road ROAD	Service Station	Regulation under CLM Act not required	-34.01654043	151.0124133
MEREWETHER	Merewether Childcare Centre	2/23 Caldwell STREET	Unclassified	Regulation under CLM Act not required	-32.94249653	151.7504279
MEREWETHER HEIGHTS	Burwood Beach Wastewater Treatment Works	Lot 1, Scenic DRIVE	Other Industry	Under assessment	-32.951095	151.753804
MERIMBULA	Caltex Service Station	19-25 Merimbula DRIVE	Service Station	Regulation under CLM Act not required	-36.88757881	149.9089159
MERIMBULA	Former Mobil Service Station	27 Market STREET	Service Station	Regulation under CLM Act not required	-36.88941693	149.9103485
MERRYLANDS	Former Timber Yard and Hardware	11-19 Centenary ROAD	Other Petroleum	Regulation under CLM Act not required	-33.83083025	150.9698915
MERRYLANDS	Caltex Service Station	229 Woodville ROAD	Service Station	Regulation under CLM Act not required	-33.84547463	150.9983413
MERRYLANDS	Caltex Service Station Merrylands	148 Woodville ROAD	Service Station	Regulation under CLM Act not required	-33.83818499	150.9997199

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MERRYLANDS	Stockland Merrylands Court	249-259 Merrylands ROAD	Service Station	Regulation under CLM Act not required	-33.83560037	150.9869735
MERRYLANDS	7-Eleven Merrylands Service Station	295-297 Merrylands Road, corner Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.83533205	150.9851801
MERRYLANDS	Former Stockfeed Manufacturing Site	1-7 & 9-11 Neil STREET	Other Petroleum	Regulation under CLM Act not required	-33.83390257	150.9947449
MERRYLANDS WEST	Former Mobil Service Station	3 Centenary ROAD	Service Station	Regulation under CLM Act not required	-33.83214226	150.9698958
MILLER	Caltex Service Station	86 Cartwright AVENUE	Service Station	Regulation under CLM Act not required	-33.91878146	150.8827514
MILLERS FOREST	Chichester Trunk Gravity Main	water pipeline ACCESS	Other Industry	Contamination currently regulated under POEO Act	-32.772877	151.6826841
MILLERS POINT	Former AGL Gasworks	30 - 34 Hickson ROAD	Gasworks	Regulation under CLM Act not required	-33.86179594	151.2031726
MILLERS POINT	Moores Wharf UPSS	4 Towns PLACE	Other Petroleum	Regulation under CLM Act not required	-33.85581123	151.2024759
MILLERS POINT	Former AGL Gasworks	38 Hickson and road reserve ROAD	Gasworks	Contamination being managed via the planning process (EP&A Act)	-33.86280104	151.2032452
MILLERS POINT	Former AGL Gasworks	Berths 5, 6 and 7 (already demolished) and part Hickson ROAD	Gasworks	Contamination formerly regulated under the CLM Act	-33.86239771	151.2024819
MILLERS POINT	Former AGL Gasworks 36 Hickson Road	36 Hickson ROAD	Gasworks	Contamination formerly regulated under the CLM Act	-33.86243824	151.2032514
MILPERRA	Heatcraft Australia Pty Ltd	286 Horsley ROAD	Other Industry	Regulation under CLM Act not required	-33.94031556	150.9958606
MILPERRA	United Group Rail Pty Limited	373 Horsley ROAD	Landfill	Regulation under CLM Act not required	-33.93286283	150.9934071
MILPERRA	Caltex Service Station	264 Milperra ROAD	Service Station	Regulation under CLM Act not required	-33.93018101	150.9910964
MILPERRA	Former Landfill	479 Henry Lawson DRIVE	Landfill	Regulation under CLM Act not required	-33.93394617	150.9776715
MILTON	Former Sanitary Depot	Slaughterhouse ROAD	Other Industry	Regulation under CLM Act not required	-35.33819825	150.4471917

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MILTON	Caltex Milton Service Station and Depot	331 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-35.33154474	150.4492852
MINCHINBURY	7-Eleven (former Mobil) Service Station	815 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.78812909	150.8495992
MINCHINBURY	BP Service Station	1055 Great Western Highway corner Archbold ROAD	Service Station	Regulation under CLM Act not required	-33.78211857	150.8244185
MINTO	Land adjacent to Former Shell depot	Airds Road and Essex STREET	Other Petroleum	Regulation under CLM Act not required	-34.02140447	150.8415134
MINTO	Shell Coles Express Service Station	73 Pembroke STREET	Service Station	Regulation under CLM Act not required	-34.02316454	150.8503118
MINTO	Former Endeavour Energy Depot	Pembroke ROAD	Other Petroleum	Regulation under CLM Act not required	-34.0408973	150.8451837
MINTO	Logistics Hub - Culverston Road, Minto	Culverston ROAD	Other Petroleum	Regulation under CLM Act not required	-34.0421711	150.833825
MIRANDA	Woolworths Service Station	455 Kingsway OTHER	Service Station	Contamination currently regulated under CLM Act	-34.03492814	151.1124681
MITTAGONG	Enhance (former Coles Express) Service Station	224 Old Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-34.44746118	150.4326183
MITTAGONG	Lots 1 and 2 Alfred St.	Alfred STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-34.44738105	150.4565159
MITTAGONG	Caltex Mittagong Service Station	65 Bowral ROAD	Service Station	Regulation under CLM Act not required	-34.45245915	150.4381291
MOAMA	Caltex Moama Service Station	73 Meninya (Cnr Regent St) STREET	Service Station	Regulation under CLM Act not required	-36.10815134	144.752849
MOLONG	Cabonne BP Service Station	2 Gidley STREET	Service Station	Contamination currently regulated under CLM Act	-33.09026307	148.8695809
MOLONG	Former Gasworks	Hill STREET	Gasworks	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.09074595	148.8703262
MONA VALE	Mona Vale Bus Depot	58 Darley STREET	Other Petroleum	Contamination currently regulated under CLM Act	-33.67452414	151.3074246
MONA VALE	Former Caltex service station and adjacent properties	79 Barrenjoey Road, 2 Polo Avenue, 6 Polo Avenue, 45 Bassett STREET	Service Station	Contamination formerly regulated under the CLM Act	-33.6743659	151.3096932

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MONA VALE	7-Eleven (former Mobil) Service Station	24 Barrenjoey ROAD	Service Station	Regulation under CLM Act not required	-33.676909	151.3082515
MONA VALE	BP Peninsula Express Service Station	Corner Barrenjoey Road and Darley Street East STREET	Service Station	Regulation under CLM Act not required	-33.67670799	151.3090068
MONA VALE	BP Service Station Mona Vale	1721 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.68043443	151.3023553
MONA VALE	Caltex Investigation Area	Polo Ave, Perak STREET	Service Station	Contamination formerly regulated under the CLM Act	-33.67431333	151.3091148
MONA VALE	Taronga Place Mona Vale properties	Taronga PLACE	Other Petroleum	Contamination currently regulated under CLM Act	-33.67422848	151.3066972
MOOBALL	Mooball General Store	5913 Tweed Valley WAY	Service Station	Regulation under CLM Act not required	-28.44204594	153.4887648
MOONBI	Caltex Moonbi Service Station	New England HIGHWAY	Service Station	Regulation under CLM Act not required	-31.02264369	151.069094
MOORE PARK	Area 2, Moore Park	Driver AVENUE	Unclassified	Regulation under CLM Act not required	-33.89426868	151.2226839
MOOREBANK	Caltex Service Station	216 Newbridge ROAD	Service Station	Regulation under CLM Act not required	-33.92930835	150.9551469
MOOREBANK	Joyce Foam Products	5-9 Bridges ROAD	Chemical Industry	Regulation under CLM Act not required	-33.92596302	150.9335273
MOOREBANK	ABB Australia Pty Ltd	(a) 1 Bapaume ROAD	Other Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.94143741	150.9208754
MOOREBANK	Caltex Service Station Moorebank	2 Bridges ROAD	Service Station	Regulation under CLM Act not required	-33.92839682	150.9327012
MOOREBANK	Former Concrete Recyclers property, Newbridge Road, Moorebank	Newbridge ROAD	Landfill	Contamination being managed via the planning process (EP&A Act)	-33.9390295	150.9653979
MOORLAND	Caltex Service Station	99 Jericho ROAD	Service Station	Regulation under CLM Act not required	-31.79436622	152.6514849
MOREE	Former Freedom Service Station Site Moree	1 Dover STREET	Service Station	Contamination currently regulated under CLM Act	-29.4715814	149.8440279
MOREE	Caltex Depot	101 Gosport STREET	Other Petroleum	Regulation under CLM Act not required	-29.47603684	149.8476728

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MOREE	Former Golden Fleece Depot	Gosport STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-29.47698315	149.8477108
MOREE	Former Mobil Depot	Gosport STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-29.47771921	149.8478438
MOREE	Moree Airport Evaporation Pond	Newell HIGHWAY	Unclassified	Regulation under CLM Act not required	-29.50289837	149.8411301
MOREE	Caltex Service Station	54 Alice STREET	Service Station	Contamination currently regulated under CLM Act	-29.47158492	149.8433182
MOREE	Former Shell Depot	Adelaide STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-29.47655335	149.8465698
MOREE	Shell Coles Express Service Station	Corner Gwydir and Balo STREET	Service Station	Regulation under CLM Act not required	-29.46081826	149.8419975
MOREE	BP Truckstop and Depot Moree	Newell Highway - 423 Frome STREET	Service Station	Regulation under CLM Act not required	-29.48223274	149.8463679
MOREE	Sunnyside Road	Sunnyside ROAD	Unclassified	Regulation under CLM Act not required	-29.45652718	149.8226682
MORISSET	Railcorp Station Masters Cottage	24 Dora STREET	Unclassified	Regulation under CLM Act not required	-33.10849681	151.4880317
MORISSET	Morisset High School	Bridge STREET	Unclassified	Regulation under CLM Act not required	-33.10475221	151.4866482
MORPETH	Telstra Cable Installation and RTA Bridge work	Northumberland STREET	Other Petroleum	Regulation under CLM Act not required	-32.72489729	151.6266795
MORPETH	Former Service Station	Swan STREET	Service Station	Regulation under CLM Act not required	-32.72477413	151.6250642
MORTLAKE	Former Petroleum Storage Site	108-116 Tennyson ROAD	Other Petroleum	Regulation under CLM Act not required	-33.83979033	151.1064889
MORTLAKE	Kendall Bay Sediments	Kendall BAY	Gasworks	Contamination currently regulated under CLM Act	-33.83905999	151.1120458
MORTLAKE	Former AGL site	Tennyson ROAD	Gasworks	Contamination formerly regulated under the CLM Act	-33.84287407	151.1109313
MORTLAKE	Majors Bay Redevelopment	14-22 Hilly STREET	Other Industry	Regulation under CLM Act not required	-33.83954617	151.1054674

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MORUYA	Former Fuel Depot Moruya	11 to 13 Ford STREET	Other Petroleum	Regulation under CLM Act not required	-35.9112243	150.0826475
MORUYA	Caltex Service Station Moruya	80-84 Campbell STREET	Service Station	Regulation under CLM Act not required	-35.91195596	150.0824213
MORUYA	Caltex Service Station	26 Campbell STREET	Service Station	Regulation under CLM Act not required	-35.9104985	150.0711419
MOSMAN	7-Eleven Mosman	162A Spit Road Corner Mitchell ROAD	Service Station	Regulation under CLM Act not required	-33.81747016	151.2433633
MOSMAN	BP Service Station	175 Ourimbah ROAD	Service Station	Regulation under CLM Act not required	-33.82106757	151.233291
MOSMAN	7-Eleven Service Station Mosman	45 Spit ROAD	Service Station	Regulation under CLM Act not required	-33.82302718	151.2435627
MOSMAN	Allan Border Oval	Myahgah ROAD	Landfill	Regulation under CLM Act not required	-33.82681534	151.2417712
MOSS VALE	Woolworths Service Station Moss Vale	609 Argyle STREET	Service Station	Regulation under CLM Act not required	-34.55409411	150.3609797
MOSS VALE	Coles Express Service Station	579 Argyle STREET	Service Station	Regulation under CLM Act not required	-34.55313422	150.364684
MOSS VALE	Moss Vale Refuelling Facility	Lackey ROAD	Other Petroleum	Regulation under CLM Act not required	-34.54662421	150.3721525
MOUNT ANNAN	Woolworths Caltex Mount Annan	157 Narellan (Corner Smeaton Grange Road) ROAD	Service Station	Regulation under CLM Act not required	-34.04685527	150.7610434
MOUNT ANNAN	Great Southern Railways Aqueduct	Off Narellan ROAD	Unclassified	Regulation under CLM Act not required	-34.07308479	150.7707436
MOUNT COLAH	Caltex Service Station Mount Colah	603 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.67034662	151.1151861
MOUNT COLAH	Foxglove Oval	Foxglove ROAD	Landfill	Contamination currently regulated under CLM Act	-33.65829855	151.1229638
MOUNT DRUITT	Caltex (former Mobil) Service Station, 17 Mount Street, Mount Drutt	17 Mount STREET	Service Station	Regulation under CLM Act not required	-33.76567994	150.8244544
MOUNT DRUITT	7-Eleven Mount Drutt	Lot 6 Luxford ROAD	Other Petroleum	Under assessment	-33.76483839	150.8254157

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MOUNT HUTTON	Woolworths Service Station	46 Wilsons ROAD	Service Station	Regulation under CLM Act not required	-32.9836378	151.67309
MOUNT PRITCHARD	7-Eleven Service Station	352 Elizabeth DRIVE	Service Station	Regulation under CLM Act not required	-33.90260656	150.8963326
MOUNT THORLEY	Bulga Surface Operations	Broke ROAD	Other Industry	Regulation under CLM Act not required	-32.68325751	151.1206158
MOUNT THORLEY	Lowes Petroleum (Former BP) Depot Mount Thorley	74 Mount Thorley ROAD	Other Petroleum	Regulation under CLM Act not required	-32.62443074	151.1025122
MOUNT VICTORIA	Former Mobil Service Station	81 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.5889727	150.2511783
MOUNT VICTORIA	Caltex Service Station	36a Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.58436517	150.2465528
MUDGEE	Caltex Service Station	114-116 Church STREET	Service Station	Regulation under CLM Act not required	-32.59428029	149.5876199
MUDGEE	Shell Coles Express Service Station	47 Church STREET	Service Station	Regulation under CLM Act not required	-32.59347493	149.5884623
MUDGEE	BP Service Station Mudgee	77 Church STREET	Service Station	Regulation under CLM Act not required	-32.59545872	149.588123
MUDGEE	Mobil Depot	47 Douro STREET	Other Petroleum	Contamination currently regulated under CLM Act	-32.60023979	149.5823448
MUDGEE	Mudgee Gasworks	Mortimer Street and Court STREET	Gasworks	Regulation under CLM Act not required	-32.59168859	149.5817705
MUDGEE	Former Essential Energy Depot	27-31 Inglis STREET	Other Industry	Regulation under CLM Act not required	-32.60076552	149.5858905
MUDGEE	Former Caltex Depot Mudgee	cnr Nicholson Street & Atkinson STREET	Other Petroleum	Regulation under CLM Act not required	-32.60125298	149.5851398
MULGRAVE	7-Eleven (former Mobil) Service Station	Corner Windsor Road and Mulgrave ROAD	Service Station	Regulation under CLM Act not required	-33.61687781	150.8341809
MULLUMBIMBY	Station Street, Mullumbimby NSW 2482	Station STREET	Other Industry	Regulation being finalised	-28.54943	153.50384
MULWALA	Mulwala ADI Explosives Factory	Bayly STREET	Other Industry	Regulation under CLM Act not required	-35.97572689	145.9809786

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MURWILLUMBAH	Murwillumbah Ambulance Depot	27 Queen STREET	Other Petroleum	Regulation under CLM Act not required	-28.32552576	153.4000182
MURWILLUMBAH SOUTH	Puma Murwillumbah (formerly Matilda)	182 Tweed Valley WAY	Service Station	Contamination currently regulated under CLM Act	-28.3263681	153.4103824
MURWILLUMBAH SOUTH	Former Norco Butter Factory (Eastern Portion)	230 Tweed Valley WAY	Other Petroleum	Regulation under CLM Act not required	-28.32791359	153.4073052
MUSWELLBROOK	Former Caltex Depot	1 Lower William STREET	Other Petroleum	Regulation under CLM Act not required	-32.26614257	150.8865136
MUSWELLBROOK	Vacant Rail Land	27 Brook STREET	Unclassified	Regulation under CLM Act not required	-32.26346086	150.8873181
MUSWELLBROOK	United Branded (Former Mobil) Service Station Muswellbrook	49-51 Maitland STREET	Service Station	Regulation under CLM Act not required	-32.27218162	150.8900206
MUSWELLBROOK	Former Mobil Depot Muswellbrook	43-51 Ford STREET	Other Petroleum	Regulation under CLM Act not required	-32.2599725	150.887573
MUSWELLBROOK	Woolworths Petrol	72 Brook STREET	Service Station	Regulation under CLM Act not required	-32.26325377	150.8905966
MUSWELLBROOK	Caltex Muswellbrook Service Station	84-86 Maitland STREET	Service Station	Regulation under CLM Act not required	-32.27793094	150.8980938
MUSWELLBROOK	Former Gasworks	Corner Carl Street and Foley STREET	Gasworks	Regulation under CLM Act not required	-32.26672337	150.8935982
MUSWELLBROOK	Bayswater Power Station	New England HIGHWAY	Other Industry	Regulation under CLM Act not required	-32.3954046	150.9502683
MUSWELLBROOK	Former Industrial Site	Lot 89 Rathmore STREET	Other Industry	Regulation under CLM Act not required	-32.30544071	150.8823657
MUSWELLBROOK	Caltex Service Station	12-16 Sydney STREET	Service Station	Regulation under CLM Act not required	-32.26785559	150.8879601
MUSWELLBROOK	Former Caltex Depot	47-50 Victoria STREET	Service Station	Regulation under CLM Act not required	-32.26788823	150.8930609
MUSWELLBROOK	Former Pit Top No. 1 Colliery Muswellbrook Coal	Corner Clendinning Street and Victoria STREET	Other Industry	Regulation under CLM Act not required	-32.27031992	150.9009981
NABIAC	Caltex Service Station NABIAC	3964 Wallanbah (Cnr Wallanbah Rd and Pacific Hwy) ROAD	Service Station	Regulation under CLM Act not required	-32.09864883	152.3754346

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
NAMBUCCA HEADS	Former Mobil Service Station	6 Bowra STREET	Service Station	Regulation under CLM Act not required	-30.64282127	153.0035884
NARELLAN	Caltex Service Station Narellan	1 George Hunter DRIVE	Service Station	Regulation under CLM Act not required	-34.03963992	150.7432386
NARELLAN	Former Landfill	1 Elyard STREET	Landfill	Regulation under CLM Act not required	-34.043474	150.7393256
NAROOMA	Narooma Service Station	60 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-36.21617955	150.126261
NAROOMA	Former Caltex - Narooma	82 Princes HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-36.21711766	150.1279305
NARRABEEN	Caltex Service Station	1509-1511 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.70455756	151.2969352
NARRABEEN	Shell Coles Express Service Station	1418 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.70013931	151.3002782
NARRABEEN	Narrabeen Shotgun Range Sydney Academy of Sport	Wakehurst PARKWAY	Unclassified	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.72138423	151.2642798
NARRABEEN	7-Eleven Service Station	1234 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.71958892	151.298272
NARRABEEN	7-Eleven Narrabeen North	1497 Pittwater Road, corner Gondola ROAD	Service Station	Regulation being finalised	-33.7078448	151.2966483
NARRABRI	Caltex Service Station	13 Doyle STREET	Service Station	Regulation under CLM Act not required	-30.3239182	149.7843052
NARRABRI	Lowes Petroleum (Former Mobil) Narrabri Depot	3 Old Gunnedah ROAD	Other Petroleum	Regulation under CLM Act not required	-30.33473586	149.789587
NARRABRI	Caltex Service Station	31-35 Cooma ROAD	Service Station	Regulation under CLM Act not required	-30.33968576	149.7657241
NARRABRI	Caltex Narrabri Service Station	31 Dangar (Cnr Anne and Dangar) STREET	Service Station	Regulation under CLM Act not required	-30.32989667	149.7756598
NARRABRI	Caltex Service Station	12 Reid STREET	Other Petroleum	Regulation under CLM Act not required	-30.32282764	149.7901182
NARRABRI	Cargill Soapstock Disposal Site	Westport ROAD	Unclassified	Contamination formerly regulated under the CLM Act	-30.4698458	149.6981931

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
NARRABRI	Caltex Service Station	7-13 James STREET	Service Station	Regulation under CLM Act not required	-30.33016168	149.7940732
NARRANDERA	Former Mobil Narrandera Depot	24 Whitton STREET	Other Petroleum	Regulation under CLM Act not required	-34.7410523	146.5620667
NARRANDERA	Former Mobil Emoleum Narrandera Depot	5-7 Margaret STREET	Other Petroleum	Regulation under CLM Act not required	-34.74105391	146.5628144
NARROMINE	Narromine Fuel (Former Caltex) Service Station	Cnr Burraway Street and Algalah STREET	Service Station	Regulation under CLM Act not required	-32.23565321	148.2454259
NELLIGEN	Former Clay Target Shooting Range	1398 Kings Highway and adjoining land on Old Bolaro Mountain ROAD	Unclassified	Contamination currently regulated under CLM Act	-35.64392469	150.0955224
NELLIGEN	Lot 2 Old Bolaro Road	Old Bolaro ROAD	Unclassified	Contamination formerly regulated under the CLM Act	-35.64485609	150.0937341
NELSON BAY	Shell Coles Express Service Station	25 Stockton STREET	Service Station	Regulation under CLM Act not required	-32.72265762	152.1437317
NELSON BAY	Former Caltex Service Station Nelson Bay	38 Stockton STREET	Service Station	Regulation under CLM Act not required	-32.72335662	152.1429384
NEMINGHA	Caltex Service Station and Depot Nemingha	428 Armidale (previously 16 New England Highway) ROAD	Service Station	Regulation under CLM Act not required	-31.12425169	150.9909054
NEUTRAL BAY	Caltex Service Station	16-38 Military ROAD	Service Station	Regulation under CLM Act not required	-33.82907162	151.2163342
NEUTRAL BAY	Shell Coles Express Service Station	200-204 Ben Boyd ROAD	Service Station	Regulation under CLM Act not required	-33.82915781	151.219437
NEW LAMBTON	Caltex Service Station New Lambton	144 Bridges ROAD	Service Station	Regulation under CLM Act not required	-32.93283668	151.7141748
NEW LAMBTON	BP Service Station	105 St James ROAD	Service Station	Regulation under CLM Act not required	-32.92910325	151.7155801
NEW LAMBTON	7-Eleven (former Mobil) Service Station	291 Turton ROAD	Service Station	Regulation under CLM Act not required	-32.91773864	151.7243096
NEWCASTLE	Reclaimed Land	26-28 Honeysuckle DRIVE	Unclassified	Contamination formerly regulated under the CLM Act	-32.92604705	151.7649508
NEWCASTLE	Wharf Road Newcastle Car Park	313-317 Wharf ROAD	Unclassified	Regulation under CLM Act not required	-32.92570385	151.7744076

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
NEWCASTLE	Newcastle Foreshore	40 Stevenson Place STREET	Other Industry	Regulation under CLM Act not required	-32.92556503	151.7876742
NEWCASTLE	SRA Land	Scott STREET	Gasworks	Regulation under CLM Act not required	-32.92641425	151.7837817
NEWCASTLE WEST	Former Mobil Service Station	113 Parry STREET	Service Station	Regulation under CLM Act not required	-32.92560628	151.7558542
NEWPORT	7-Eleven (former Mobil) Service Station	307 Barrenjoey ROAD	Service Station	Regulation under CLM Act not required	-33.65632902	151.3182089
NEWPORT	Former Caltex Service Station Newport	316-324 Barrenjoey ROAD	Service Station	Regulation under CLM Act not required	-33.65634516	151.3191571
NEWTOWN	Caltex Service Station Newtown	26 - 36 Enmore ROAD	Service Station	Regulation under CLM Act not required	-33.89851331	151.17714
NEWTOWN	Former Service Station	81 Wilson STREET	Service Station	Contamination formerly regulated under the CLM Act	-33.89626791	151.1827556
NEWTOWN	Aluminium Enterprises	66 Brocks LANE	Metal Industry	Contamination was addressed via the planning process (EP&A Act)	-33.89467126	151.1847528
NEWTOWN	Adjacent to Former Service Station	79 Wilson STREET	Service Station	Contamination formerly regulated under the CLM Act	-33.89630155	151.1826567
NORAVILLE	Former Toukley Landfill	Wilfred Barrett DRIVE	Landfill	Regulation under CLM Act not required	-33.27734185	151.5537784
NORTH ALBURY	Caltex Service Station and Diesel Stop	79 Union ROAD	Service Station	Regulation under CLM Act not required	-36.05496713	146.9487635
NORTH BOAMBEE VALLEY	Caltex Service Station	Cnr Pacific Hwy & Halls ROAD	Service Station	Regulation under CLM Act not required	-30.30639482	153.1007996
NORTH BONDI	Caltex Service Station North Bondi	321 Old South Head ROAD	Service Station	Regulation under CLM Act not required	-33.88463526	151.268551
NORTH NARRABEEN	7-Eleven Service Station	1501-1503 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.70749859	151.296351
NORTH RICHMOND	Caltex Service Station	50 Bells Line Of ROAD	Service Station	Regulation under CLM Act not required	-33.57991338	150.7202346
NORTH ROCKS	7-Eleven Service Station North Rocks	340 North Rocks ROAD	Service Station	Regulation under CLM Act not required	-33.76895144	151.0305952

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
NORTH ST MARYS	BP Service Station	76 Glossop STREET	Service Station	Regulation under CLM Act not required	-33.76020183	150.7818149
NORTH STRATHFIELD	Budget Service Station	143 Concord ROAD	Service Station	Regulation under CLM Act not required	-33.85945248	151.0927853
NORTH STRATHFIELD	Former Caltex Service Station	92a Concord ROAD	Service Station	Regulation under CLM Act not required	-33.86244297	151.0932434
NORTH SYDNEY	Iora Complex	1 Kiara PLACE	Gasworks	Regulation under CLM Act not required	-33.843145	151.2161142
NORTH SYDNEY	Neutral Bay Sediments	Adjacent to Sub Base Platypus, High STREET	Gasworks	Contamination formerly regulated under the CLM Act	-33.842724	151.2174523
NORTH SYDNEY	Sub Base Platypus (previously HMAS Platypus)	High STREET	Gasworks	Contamination formerly regulated under the CLM Act	-33.84325935	151.2170347
NORTH WOLLONGONG	Former Mobil Depot	122-126 Montague STREET	Other Petroleum	Regulation under CLM Act not required	-34.40988259	150.8939374
NORTHMEAD	Former Prestige Plastics	1C Redbank ROAD	Other Industry	Regulation under CLM Act not required	-33.79716925	150.989926
NORTHMEAD	Coles Express Service Station Northmead	197 Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.77741733	151.0001719
NORTHMEAD	Sydney Water Land	51c Hammers ROAD	Landfill	Regulation under CLM Act not required	-33.7887535	150.9858088
NORTHMEAD	Caltex Service Station	98-100 Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.78786563	150.9945909
NORTHMEAD	7-Eleven Service Station Northmead	56 Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.79090731	150.9967332
NOWRA	Former Gasworks Managers Residence	24 Osborne STREET	Gasworks	Regulation under CLM Act not required	-34.8708875	150.5992586
NOWRA	Fire Station	69 Bridge ROAD	Gasworks	Regulation under CLM Act not required	-34.87081582	150.6004881
NOWRA	Historically Filled Land	70 Bridge ROAD	Unclassified	Regulation under CLM Act not required	-34.87081809	150.6013231
NOWRA	Shell Coles Express Service Station	55 Kinghorne STREET	Service Station	Regulation under CLM Act not required	-34.87633757	150.6023481

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
NOWRA	Former gasworks	Lamonds LANE	Gasworks	Ongoing maintenance required to manage residual contamination (CLM Act)	-34.87111182	150.6000803
NOWRA	Former Hollingworth Scrap Yard	72-74 Jervis and 117 East STREET	Other Industry	Regulation under CLM Act not required	-34.88324216	150.6034361
NOWRA	Woolworths Service Station	60 North Street STREET	Service Station	Regulation under CLM Act not required	-34.87266278	150.6014052
NOWRA	Harry Sawkins Park	Bounded by Princes Hwy, Graham St & McGrath AVENUE	Gasworks	Regulation under CLM Act not required	-34.87093993	150.6037157
NOWRA EAST	Mobil Service Station	Lot 3 Kalandar STREET	Service Station	Contamination formerly regulated under the CLM Act	-34.88850535	150.6093504
NYNGAN	Caltex Service Station	39-41 Pangee STREET	Service Station	Regulation under CLM Act not required	-31.56101006	147.1914997
NYNGAN	Caltex Service Station	126 Pangee STREET	Service Station	Regulation under CLM Act not required	-31.56482841	147.2002892
NYNGAN	Main West Rail Line	Mitchell HIGHWAY	Other Industry	Regulation under CLM Act not required	-31.567405	147.2062
OAK FLATS	Shellharbour City Works Depot	132 Industrial ROAD	Other Industry	Regulation under CLM Act not required	-34.56546013	150.8087225
OBERON	Caltex Service Station and Depot	Lowes Mount ROAD	Service Station	Regulation under CLM Act not required	-33.69509055	149.8570553
OBERON	Oberon Timber Complex	Lowes Mount ROAD	Other Industry	Regulation under CLM Act not required	-33.69264862	149.8564588
OBERON	Former Shell Depot	32 O'Connell ROAD	Other Petroleum	Regulation under CLM Act not required	-33.6997172	149.8450057
OBERON	CSR Ltd Property and King's Stockyard Creek	Off Endeavour STREET	Other Industry	Contamination formerly regulated under the CLM Act	-33.6922152	149.8686909
OCEAN SHORES	Former Ocean Shores Service Station	Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-28.51270299	153.5301496
OLD GUILDFORD	Caltex Service Station	636-644 Woodville ROAD	Service Station	Regulation under CLM Act not required	-33.86670857	150.9879189
ORANGE	Former Fuel Depot	24-28 Peisley STREET	Other Petroleum	Contamination currently regulated under CLM Act	-33.29624293	149.1017277

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ORANGE	Caltex Orange Depot	184 Byng STREET	Service Station	Regulation under CLM Act not required	-33.28285589	149.1050273
ORANGE	Woolworths Orange Service Station	357-361 Summer Street, corner William STREET	Service Station	Regulation under CLM Act not required	-33.28445811	149.1053604
ORANGE	BP Orange Service Station (Reliance Petroleum)	81 Summer STREET	Service Station	Regulation under CLM Act not required	-33.2825884	149.0951535
ORANGE	BP-Branded Lowes Petroleum Depot	197 - 201 Margaret STREET	Other Petroleum	Regulation under CLM Act not required	-33.27145977	149.1078103
ORANGE	Caltex Summer Street Service Station Orange	70-74 Summer Street, corner Hill STREET	Service Station	Regulation under CLM Act not required	-33.28311722	149.0940712
ORANGE	Lowes Petroleum (BP-branded) Service Station	76 Peisley STREET	Service Station	Regulation under CLM Act not required	-33.29025034	149.1027194
ORANGE	Former Mobil Service Station	24-28 Bathurst ROAD	Service Station	Regulation under CLM Act not required	-33.2866912	149.1066505
ORANGE	BP (Reliance Petroleum) Service Station Orange	56-60 Bathurst ROAD	Service Station	Regulation under CLM Act not required	-33.28980053	149.1086212
ORANGE	Former Mobil Service Station	168 Peisley STREET	Service Station	Regulation under CLM Act not required	-33.28525478	149.1037259
ORANGE	5-7 Edward St Orange	5-7 Edward STREET	Other Industry	Contamination currently regulated under CLM Act	-33.2991077	149.1034092
OURIMBAH	Palmdale Service Centre Pty Ltd	3130 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.3381336	151.374586
OURIMBAH	United Ourimbah	51 Pacific HIGHWAY	Service Station	Under assessment	-33.36025941	151.3694483
OURIMBAH	Shell Coles Express Service Station	78-80 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.3468202	151.3710098
OXLEY VALE	Hayes Transport Services	10 Manilla ROAD	Other Petroleum	Regulation under CLM Act not required	-31.06991417	150.9101381
OYSTER BAY	Shell Coles Express Service Station	20 Carvers ROAD	Service Station	Contamination currently regulated under CLM Act	-34.00934475	151.0758626
OYSTER COVE	Cove Marine Pty Ltd	60 Frederick STREET	Unclassified	Contamination currently regulated under POEO Act	-32.73549959	151.952446

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
PADDINGTON	7-Eleven Service Station	59 Oxford STREET	Service Station	Contamination currently regulated under CLM Act	-33.88322921	151.2205024
PADDINGTON	Former Workshop	52 Hopewell STREET	Other Industry	Regulation under CLM Act not required	-33.88195798	151.2220744
PADSTOW	Caltex Padstow	115 Fairford ROAD	Service Station	Regulation under CLM Act not required	-33.9434571	151.0345671
PADSTOW	Selleys / Dulux	1-29 Gow STREET	Chemical Industry	Regulation under CLM Act not required	-33.93904125	151.0381725
PADSTOW	Former Exide Battery Manufacturing & Recycling	55 Bryant STREET	Other Industry	Contamination currently regulated under CLM Act	-33.94265241	151.0378986
PADSTOW	Galvatech	49 Gow STREET	Metal Industry	Contamination currently regulated under POEO Act	-33.93808679	151.0346862
PADSTOW	Foseco Australia	7 Stuart STREET	Chemical Industry	Regulation under CLM Act not required	-33.94342957	151.0377316
PADSTOW	Sebel Furniture	Parts 64 and 92 Gow STREET	Other Industry	Regulation under CLM Act not required	-33.93606752	151.0322057
PAGEWOOD	Former Email Site	Corner of Page Street and Holloway STREET	Metal Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.94302462	151.2132036
PAMBULA	Offsite area (roadways) adjacent to United Service Station Pambula (former Shell)	Corner Quondola Street and Bullara STREET	Service Station	Regulation under CLM Act not required	-36.93104481	149.8746763
PARKES	Caltex Service Station Parkes	352-360 Clarinda STREET	Service Station	Regulation under CLM Act not required	-33.13317454	148.173643
PARKES	Former Caltex Parkes (Mugincoble) Depot - Eugowra Rd, Mugincoble	Eugowra ROAD	Service Station	Regulation under CLM Act not required	-33.19007031	148.224822
PARKES	BP Truckstop	(Newell Highway) 1 Forbes ROAD	Other Petroleum	Regulation under CLM Act not required	-33.14309226	148.1710282
PARKES	Former BP Telescope Service Station	339-341 Clarinda STREET	Service Station	Regulation under CLM Act not required	-33.13216152	148.1743239
PARKES	BP Reliance East End Service Station Parkes	46 Clarinda STREET	Service Station	Regulation under CLM Act not required	-33.14243539	148.1846227
PARKES	Former Parkes Gas Works (including Rail Corridor and offsite land)	129 Woodward Street and land within the Parkes railway CORRIDOR	Gasworks	Contamination currently regulated under CLM Act	-33.14480316	148.1844397

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
PARKLEA	Caltex Parklea Service Station	Old Windsor (north of Miami Street) ROAD	Service Station	Regulation under CLM Act not required	-33.72427108	150.9388531
PARRAMATTA	BP Service Station	435 Church STREET	Service Station	Regulation under CLM Act not required	-33.80498714	151.0056151
PARRAMATTA	Coleman Oval Embankment	Cnr of Pitt STREET and Maquarie STREET	Unclassified	Regulation under CLM Act not required	-33.80441625	150.9954841
PARRAMATTA	7-Eleven (former Mobil) Service Station	81 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.80919769	151.0142894
PARRAMATTA	Parramatta Park Toilet Block Demolition	The Cresent Toilet Block Parramatta PARK	Unclassified	Regulation under CLM Act not required	-33.81054034	150.9961968
PAUPONG	Former Timber Treatment Plant	Off Paupong ROAD	Other Industry	Regulation under CLM Act not required	-36.57657408	148.6624998
PENDLE HILL	7-Eleven Service Station	217 Wentworth AVENUE	Service Station	Regulation under CLM Act not required	-33.8017814	150.9577994
PENNANT HILLS	Shell Coles Express Pennant Hills West	386 Pennant Hills ROAD	Service Station	Contamination currently regulated under CLM Act	-33.73928611	151.0679704
PENRITH	Mirvac Industrial Site	2101 Castlereagh ROAD	Other Industry	Regulation under CLM Act not required	-33.73497514	150.6954097
PENRITH	7-Eleven (former Mobil) Service Station	212-222 Andrews ROAD	Service Station	Regulation under CLM Act not required	-33.73059678	150.6952571
PENRITH	Lowes Petroleum (Former Mobil) Depot Penrith	174 Coreen AVENUE	Other Petroleum	Regulation under CLM Act not required	-33.74484268	150.6980504
PENRITH	Caltex Service Station	Castlereagh Rd Cnr Lugard STREET	Service Station	Regulation under CLM Act not required	-33.73426843	150.6933382
PENRITH	BP Express Service Station	Corner Coreen Avenue and Castlereagh ROAD	Service Station	Regulation under CLM Act not required	-33.74385498	150.6925743
PENRITH	Crane Enfield Metals	Castlereagh ROAD	Metal Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.73734959	150.696442
PENRITH	7-Eleven Service Station Penrith	30 Henry STREET	Service Station	Regulation under CLM Act not required	-33.75408799	150.7045594
PENRITH	Caltex Penrith Service Station	153 Coreen AVENUE	Service Station	Regulation under CLM Act not required	-33.74287244	150.6927071

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
PENRITH	Jet 60 Dry Cleaners	Shop 3 134-138 Henry STREET	Unclassified	Regulation under CLM Act not required	-33.75231953	150.6964541
PENRITH	Former Dry Cleaners	Shop 3, 134-138 Henry STREET	Other Industry	Regulation under CLM Act not required	-33.75231	150.696499
PENSHURST	7-Eleven Service Station	612 Forest ROAD	Service Station	Regulation under CLM Act not required	-33.96153533	151.0793525
PENSHURST	Caltex Service Station	641 King Georges ROAD	Service Station	Regulation under CLM Act not required	-33.95985335	151.0891118
PERISHER VALLEY	Perisher Centre Loading Dock	Kosciuszko ROAD	Other Petroleum	Regulation under CLM Act not required	-36.40392862	148.4111593
PERISHER VALLEY	Perisher Ski Resort	Kosciuszko ROAD	Other Petroleum	Regulation under CLM Act not required	-36.41106374	148.4005469
PETERSHAM	Fanny Durack Aquatic Centre	Station STREET	Unclassified	Regulation under CLM Act not required	-33.89194583	151.151824
PHEASANTS NEST	7-Eleven Service Station	(Southbound) Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-34.28291571	150.6394606
PHEASANTS NEST	7-Eleven (former Mobil) Service Station	(Northbound) Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-34.28303112	150.6363145
PICTON	Coles Express Picton	93-99 Argyle STREET	Service Station	Regulation under CLM Act not required	-34.16844337	150.6114236
PICTON	McDonalds	69 -71 Argyle STREET	Service Station	Regulation under CLM Act not required	-34.16711877	150.6121524
PITT TOWN	Whites Water Service	1 Canning PLACE	Other Industry	Regulation under CLM Act not required	-33.57418268	150.8811385
PLUMPTON	Woolworths Service Station Plumpton (Plumpton Marketplace Shops)	260 Jersey ROAD	Service Station	Regulation under CLM Act not required	-33.74478874	150.8369408
PORT BOTANY	Vopak B	20 Friendship ROAD	Chemical Industry	Regulation under CLM Act not required	-33.97946548	151.2121752
PORT BOTANY	Vopak A	49 Friendship ROAD	Chemical Industry	Regulation under CLM Act not required	-33.97426175	151.2206228
PORT BOTANY	Terminals	45 Friendship ROAD	Chemical Industry	Regulation under CLM Act not required	-33.97609287	151.2174402

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
PORT BOTANY	Bunnerong Canal	Between Brotherson Dock and Bumborah Point ROAD	Unclassified	Regulation under CLM Act not required	-33.96798227	151.2230052
PORT BOTANY	Bulk Liquids Berth UPSS, Port Botany	Charlotte ROAD	Other Petroleum	Regulation under CLM Act not required	-33.97386329	151.2120157
PORT BOTANY	Port Operations Centre UPSS, Port Botany	Penrhyn ROAD	Other Petroleum	Regulation under CLM Act not required	-33.96803686	151.2205968
PORT BOTANY	Port Botany Railway Corridors	Friendship ROAD	Other Industry	Regulation under CLM Act not required	-33.95467008	151.2178012
PORT BOTANY	Smith Bros	4 Bumborah Point ROAD	Other Petroleum	Regulation under CLM Act not required	-33.9681757	151.2239505
PORT BOTANY	Vopak Terminals	21 Fishburn ROAD	Other Industry	Under assessment	-33.97783024	151.2113674
PORT KEMBLA	Coates Hire Facility (Eastern Portion)	1 Flinders STREET	Other Industry	Regulation under CLM Act not required	-34.47104817	150.89162
PORT KEMBLA	Shell Port Kembla CVRO	87-89 Flinders STREET	Other Petroleum	Regulation under CLM Act not required	-34.46964995	150.8953859
PORT KEMBLA	Darcy Road Rail Sidings	Darcy ROAD	Other Industry	Regulation under CLM Act not required	-34.47792834	150.9105503
PORT KEMBLA	No 2 Steelworks	Five Islands ROAD	Metal Industry	Contamination formerly regulated under the CLM Act	-34.45965024	150.8844432
PORT KEMBLA	Port Kembla Orica	Foreshore Road and Darcy ROAD	Other Industry	Contamination currently regulated under CLM Act	-34.47773583	150.9054545
PORT KEMBLA	Port Kembla, Auszinc Metals and Alloys	Lot 2 Shellharbour ROAD	Metal Industry	Regulation under CLM Act not required	-34.49335414	150.8961205
PORT KEMBLA	South Yard Rail Sidings	Lot 3 Old Port ROAD	Unclassified	Regulation under CLM Act not required	-34.47500551	150.8951759
PORT KEMBLA	Manildra Park	Flinders STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-34.46946878	150.8935731
PORT KEMBLA	Port Kembla Copper Smelter	Military ROAD	Metal Industry	Contamination currently regulated under POEO Act	-34.4810006	150.9063426
PORT KEMBLA	Caltex Service Station	16 Flinders STREET	Service Station	Regulation under CLM Act not required	-34.47058088	150.8945864

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
PORT KEMBLA	BHP Area 21	Springhill ROAD	Metal Industry	Contamination formerly regulated under the CLM Act	-34.45244614	150.8676517
PORT KEMBLA	Port Kembla Steelworks Recycling Area	Springhill ROAD	Unclassified	Regulation under CLM Act not required	-34.45271181	150.8677127
PORT KEMBLA	Commonwealth Rolling Mills (CRM)	Old Port ROAD	Metal Industry	Regulation under CLM Act not required	-34.47476117	150.8974746
PORT KEMBLA	Port Kembla, Former Electricity Commission Site	Old Port Road/Christie Drive ROAD	Other Industry	Regulation under CLM Act not required	-34.46899143	150.8982854
PORT KEMBLA	Port Kembla Steelworks - Steelhaven	Five Islands ROAD	Other Industry	Regulation under CLM Act not required	-34.47605247	150.891144
PORT KEMBLA	Port Kembla Steelworks - No.1 Works Site	Five Islands ROAD	Metal Industry	Regulation under CLM Act not required	-34.47386606	150.8794912
PORT KEMBLA	Port Kembla Springhill Works	Springhill ROAD	Metal Industry	Regulation under CLM Act not required	-34.45574479	150.875052
PORT MACQUARIE	Former Mobil Depot	211 Lake ROAD	Other Petroleum	Regulation under CLM Act not required	-31.44688513	152.8864499
PORT MACQUARIE	Caltex Service Station	112-114 Gordon STREET	Service Station	Regulation under CLM Act not required	-31.43491709	152.9047618
PORT MACQUARIE	Caltex Port Macquarie Service Station	29 Lord STREET	Service Station	Regulation under CLM Act not required	-31.43326436	152.9169873
PORT MACQUARIE	Coles Myer	43 John Oxley DRIVE	Service Station	Regulation under CLM Act not required	-31.45741442	152.8739626
PORT MACQUARIE	Air BP Avgas Facility	Oliver DRIVE	Other Petroleum	Regulation under CLM Act not required	-31.43227222	152.8681083
PORT MACQUARIE	Former Mobil Service Station	Corner Oxley Highway and Major Innes DRIVE	Service Station	Regulation under CLM Act not required	-31.45738931	152.873956
PORT MACQUARIE	Port Macquarie Council Depot	Koala STREET	Unclassified	Regulation under CLM Act not required	-31.45341586	152.9032764
PORT MACQUARIE	Shell Coles Express Port Macquarie Service Station	121 Gordon STREET	Service Station	Regulation under CLM Act not required	-31.4343131	152.9046869
PORT MACQUARIE	Caltex Service Station	92 Hastings River DRIVE	Service Station	Regulation under CLM Act not required	-31.42934052	152.8830188

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
PORT MACQUARIE	Caltex Service Station	12-14 Bolwarra ROAD	Service Station	Regulation under CLM Act not required	-31.45015286	152.8854769
PORT MACQUARIE	Car park	28 Hayward STREET	Other Industry	Regulation under CLM Act not required	-31.43385131	152.9072399
PORTLAND	Ivanhoe Colliery	Pipers Flat ROAD	Other Industry	Regulation under CLM Act not required	-33.36595748	150.0099577
PORTLAND	Mt Piper Power Station	350 Boulder ROAD	Other Petroleum	Regulation under CLM Act not required	-33.35581541	150.0350801
PRAIRIEWOOD	7-Eleven (former Caltex) Service Station	485-487 Smithfield ROAD	Service Station	Regulation under CLM Act not required	-33.87102509	150.9031383
PROSPECT	7-Eleven (former Mobil) Service Station Prospect	354 Flushcombe ROAD	Service Station	Regulation under CLM Act not required	-33.79541624	150.9049417
PROSPECT	Pincott's Cottage, Gate C1	Off Reservoir ROAD	Unclassified	Regulation under CLM Act not required	-33.81589773	150.9144343
PROSPECT	Gatehouse, 544 Reservoir Road	544 Reservoir ROAD	Unclassified	Regulation under CLM Act not required	-33.81026272	150.9160605
PROSPECT	Cottage 3, William Lawson Drive	William Lawson DRIVE	Unclassified	Regulation under CLM Act not required	-33.81490331	150.9149885
PUNCHBOWL	Former BP Service Station	1375 Canterbury Road, corner Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.93170424	151.0537302
PUNCHBOWL	Punchbowl Laundry	42-44 Belmore ROAD	Chemical Industry	Contamination currently regulated under CLM Act	-33.93582701	151.0562638
PUNCHBOWL	Caltex Service Station Punchbowl	1285-1289 Canterbury ROAD	Service Station	Regulation under CLM Act not required	-33.93146308	151.0596348
PUTNEY	Putney Marina	20 Waterview STREET	Other Industry	Regulation under CLM Act not required	-33.82608091	151.1003966
PYMBLE	Caltex Service Station	1089 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.74102977	151.1385257
PYMBLE	Shell Coles Express Service Station	21 Ryde ROAD	Service Station	Regulation under CLM Act not required	-33.75198512	151.1438115
PYMBLE	Former 3M site	950 Pacific HIGHWAY	Gasworks	Regulation under CLM Act not required	-33.75050288	151.1460578

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
PYMBLE	Pymble West Dry Cleaners	6 Philip MALL	Other Industry	Under preliminary investigation order	-33.76109009	151.1284329
PYRMONT	Former Council Works Depot (Fig and Wattle Depot)	14-26 Wattle STREET	Other Industry	Regulation under CLM Act not required	-33.8752655	151.1942645
QUAKERS HILL	7-Eleven (former Mobil) Service Station	83 Lalor ROAD	Service Station	Regulation under CLM Act not required	-33.72759077	150.8966764
QUAKERS HILL	BP Branded Parkway (Former Caltex) Service Station Quakers Hill	450 Quakers Hill PARKWAY	Service Station	Regulation under CLM Act not required	-33.72998613	150.9023617
QUEANBEYAN	Former Mobil Service Station	153 Uriarra ROAD	Service Station	Regulation under CLM Act not required	-35.34425514	149.2148687
QUEANBEYAN	Bill Lilley Automotive	169 Crawford STREET	Service Station	Regulation under CLM Act not required	-35.35138121	149.232486
QUEANBEYAN	Woolworths Queanbeyan Service Station	196 Crawford (Cnr Morisset St) STREET	Service Station	Regulation under CLM Act not required	-35.35163055	149.2335759
QUEANBEYAN	Caltex Queanbeyan Service Station	88 Macquoid (also known as Bungendore Rd) STREET	Service Station	Regulation under CLM Act not required	-35.34930535	149.2438607
QUEANBEYAN	Former Mobil Emoleum Depot	109-111 High STREET	Other Petroleum	Regulation under CLM Act not required	-35.3396115	149.237556
QUEANBEYAN	Former Caltex Depot	20-30 Railway STREET	Other Petroleum	Regulation under CLM Act not required	-35.34187485	149.2247277
QUEANBEYAN EAST	BP-Branded Service Station Queanbeyan	50 Yass ROAD	Service Station	Regulation under CLM Act not required	-35.34126641	149.2445103
QUEANBEYAN WEST	Caltex Service Station	Lanyon Dr Cnr Mccrae St (1 Suraci Place) STREET	Service Station	Regulation under CLM Act not required	-35.36372923	149.2067531
QUIRINDI	Former Mobil Depot Quirindi	4-6 Cross STREET	Other Petroleum	Regulation under CLM Act not required	-31.49903355	150.681972
QUIRINDI	Tamarang ServiCentre Quirindi	113-117 Station (also known as 119-121 Nowland) STREET	Service Station	Under assessment	-31.50179204	150.6814611
QUIRINDI	Caltex Service Station, Quirindi	199-201 George STREET	Service Station	Regulation under CLM Act not required	-31.5068778	150.6805874
RAMSGATE	Shell Coles Express Service Station	Grand Parade cnr Ramsgate ROAD	Service Station	Regulation under CLM Act not required	-33.98537988	151.1471234

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
RANDWICK	7-Eleven Service Station	126-130 Barker STREET	Service Station	Contamination currently regulated under CLM Act	-33.92096152	151.2355927
RANDWICK	Caltex Service Station	2 Alison ROAD	Service Station	Regulation under CLM Act not required	-33.9065752	151.2320697
RANDWICK	Metro Petroleum	345 Avoca STREET	Service Station	Regulation under CLM Act not required	-33.92544832	151.2396799
RANDWICK	Service Station, Randwick	33-37 Carrington ROAD	Service Station	Contamination currently regulated under CLM Act	-33.90655015	151.2525065
RAVENSWORTH	Ravensthorpe Operations Narama Mine	Lemington ROAD	Other Industry	Regulation under CLM Act not required	-32.47115903	151.0359579
RAVENSWORTH	Cumnock Colliery	Pikes Gully ROAD	Other Industry	Regulation under CLM Act not required	-32.40218281	150.9960082
RAYMOND TERRACE	Shell Coles Express Raymond Terrace	107 Adelaide (formerly Pacific Highway) STREET	Service Station	Regulation under CLM Act not required	-32.76110922	151.7492847
RAYMOND TERRACE	Caltex Service Station Raymond Terrace	136 Adelaide Street, corner Glenelg STREET	Service Station	Regulation under CLM Act not required	-32.76503842	151.7425264
RAYMOND TERRACE	Former Motor Registry	53 William STREET	Other Petroleum	Regulation under CLM Act not required	-32.76286473	151.7445839
RAYMOND TERRACE	Raymond Terrace Wastewater Treatment Works	22 Elizabeth AVENUE	Other Industry	Regulation under CLM Act not required	-32.7745339	151.7498871
REDFERN	BP Service Station	116 Regent STREET	Service Station	Regulation under CLM Act not required	-33.89367876	151.1995256
REDFERN	Former Printing Works	101a Marriott STREET	Other Industry	Regulation under CLM Act not required	-33.89512556	151.2113422
REDFERN	BP-branded Jasbe Surry Hills	411 Cleveland STREET	Service Station	Regulation under CLM Act not required	-33.89183974	151.2132466
REDFERN	Surry Hills Shopping Village	397-399 Cleveland & 2-38 Baptist STREET	Other Industry	Regulation under CLM Act not required	-33.89229521	151.2119397
REVESBY	Dorf Clark Industries	184-194 Milperra ROAD	Metal Industry	Regulation under CLM Act not required	-33.93387149	151.000553
REVESBY	Thetis Pty Ltd - Bituminous Products	33-35 Violet STREET	Chemical Industry	Contamination currently regulated under CLM Act	-33.93702092	151.0067896

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
REVESBY	Mirotone Pty Ltd	21 Marigold STREET	Chemical Industry	Contamination currently regulated under POEO Act	-33.93559608	151.0002207
REVESBY	Caltex Service Station Revesby	181 The River ROAD	Service Station	Regulation under CLM Act not required	-33.95573605	151.0171779
RHODES	Homebush Bay Sediments adjoining the former UCAL and Allied Feeds sites	Homebush BAY	Chemical Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.8263749	151.0839216
RHODES	Former Glad factory site	10-16 Marquet STREET	Chemical Industry	Regulation under CLM Act not required	-33.82884048	151.0848716
RHODES	Former Allied Feeds site	Walker STREET	Other Industry	Contamination formerly regulated under the CLM Act	-33.82465376	151.0870401
RHODES	Former UCAL site	Walker STREET	Chemical Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.82727505	151.0853195
RHODES	Homebush Bay sediments adjoining former Berger Paint factory	Oulton AVENUE	Chemical Industry	Contamination currently regulated under CLM Act	-33.83535308	151.083238
RICHMOND	Caltex Richmond Service Station	98 March (Cnr East Market St) STREET	Service Station	Regulation under CLM Act not required	-33.59937996	150.7514483
RIVERSTONE	Axalta Coating Systems	15-23 Melbourne ROAD	Other Industry	Regulation under CLM Act not required	-33.6636649	150.8557519
RIVERSTONE	7-Eleven Riverstone	55 Garfield ROAD	Service Station	Regulation under CLM Act not required	-33.67802232	150.8635246
RIVERSTONE	Woolworths Vineyard Service Station, Riverstone	1 Woodland Street, corner of Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.65607641	150.8724067
RIVERSTONE	Vacant Commercial Land	88-94 Junction ROAD	Unclassified	Regulation under CLM Act not required	-33.66226398	150.8789967
RIVERWOOD	7-Eleven Riverwood	30 Bonds ROAD	Service Station	Regulation under CLM Act not required	-33.9523701	151.0583887
ROCKDALE	7-Eleven (former Mobil) Service Station	293 West Botany STREET	Service Station	Regulation under CLM Act not required	-33.94995672	151.1484667
ROCKDALE	7-Eleven Service Station	99 Railway STREET	Service Station	Regulation under CLM Act not required	-33.95247322	151.1356785
ROCKDALE	Lindsay St, Rockdale	7 Lindsay STREET	Other Industry	Under assessment	-33.95900867	151.1436466

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ROOTY HILL	7-Eleven (former Mobil) Service Station	106 Rooty Hill Road South ROAD	Service Station	Regulation under CLM Act not required	-33.78036181	150.8501998
ROOTY HILL	7-Eleven (former Mobil) Service Station	1042 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.78214955	150.8287656
ROOTY HILL	Infrabuild NSW Pty Ltd (formerly OneSteel NSW Pty Ltd)	22 Kellogg ROAD	Other Industry	Regulation under CLM Act not required	-33.76664143	150.8493465
ROSE BAY	Caltex Rose Bay Service Station	488 Old South Head ROAD	Service Station	Regulation under CLM Act not required	-33.87475145	151.2723847
ROSE BAY	Rose Bay Budget Service station	638-646 New South Head ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.87062149	151.2677617
ROSEBERY	Autofoil P/L	2 Mentmore AVENUE	Other Industry	Regulation under CLM Act not required	-33.91121318	151.2054882
ROSEBERY	Caltex Rosebery Service Station	321 Gardeners (Cnr Macquarie St) ROAD	Service Station	Contamination currently regulated under CLM Act	-33.92302898	151.2059541
ROSEBERY	Former Industrial Site (Former Electroplating Facility)	108 Dunning AVENUE	Other Industry	Regulation under CLM Act not required	-33.91630811	151.201557
ROSEBERY	Rosebery Service Station	395 Gardeners ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.92246784	151.2024589
ROSEHILL	James Hardie Australia and former James Hardie lands	8 and 10 Colquhoun Street and 5 Devon STREET	Landfill	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.82539019	151.0339466
ROSEHILL	2 Ritchie Street, Rosehill	2 Ritchie STREET	Unclassified	Contamination formerly regulated under the CLM Act	-33.82691192	151.0154948
ROSEHILL	James Hardie Factory (former, western portion)	181 James Ruse DRIVE	Other Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.81605834	151.0238145
ROSELANDS	Roselands Shopping Centre	24 Roseland AVENUE	Service Station	Regulation under CLM Act not required	-33.93499281	151.0691284
ROSELANDS	Woolworths Caltex Petrol Service Station Roselands	218 King Georges ROAD	Service Station	Regulation under CLM Act not required	-33.93303118	151.0735036
ROSELANDS	7-Eleven (former Mobil) Service Station	91 Canary's ROAD	Service Station	Regulation under CLM Act not required	-33.93356078	151.0736274
ROSEVILLE	Mobil Service Station	2 Boundary STREET	Service Station	Regulation under CLM Act not required	-33.78769177	151.1796011

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ROSEVILLE CHASE	Coles Express Roseville Chase	388 Eastern Valley WAY	Service Station	Regulation under CLM Act not required	-33.78337722	151.1973901
ROZELLE	Caltex Service Station	121 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.86252996	151.168497
ROZELLE	7-Eleven (former Mobil) Service Station	178-180 (176-184) Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.8630268	151.1680857
ROZELLE	Kennards Rozelle	15-39 Wellington STREET	Other Petroleum	Regulation under CLM Act not required	-33.86176757	151.1686519
ROZELLE	White Bay Power Station	Robert STREET	Other Industry	Regulation under CLM Act not required	-33.86674636	151.1772204
ROZELLE	BP Service Station	Corner Darling Street and Thornton STREET	Service Station	Regulation under CLM Act not required	-33.8591647	151.1716591
RUFUS RIVER	SA Water Depot - Rufus River	Old Wentworth STREET	Other Petroleum	Regulation under CLM Act not required	-34.04191512	141.2679475
RUSHCUTTERS BAY	d'Albora Marinas	1b New Beach ROAD	Other Industry	Contamination currently regulated under POEO Act	-33.87351297	151.2345082
RUTHERFORD	Rutherford Transpacific	11 Kyle STREET	Other Industry	Regulation under CLM Act not required	-32.71105203	151.500311
RUTHERFORD	Shell Coles Express Service Station Rutherford	118 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-32.7208703	151.5394595
RUTHERFORD	Caltex Service Station	134-138 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-32.7202589	151.5381526
RUTHERFORD	Transpacific Industrial Services/Nationwide Oil Pty Ltd	99 Kyle STREET	Chemical Industry	Regulation under CLM Act not required	-32.71262159	151.5013865
RYDALMERE	Caltex Service Station	309 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.81196193	151.0371185
RYDALMERE	Mitsubishi Electric	348 Victoria ROAD	Other Industry	Contamination currently regulated under CLM Act	-33.81040138	151.0392812
RYDALMERE	Rheem Australia	1 Alan STREET	Other Industry	Contamination formerly regulated under the CLM Act	-33.81545013	151.0295476
RYDALMERE	BP Service Station	265 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.8109483	151.0328101

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
RYDALMERE	Hunter Douglas	Victoria ROAD	Chemical Industry	Regulation under CLM Act not required	-33.81009112	151.0384732
RYDALMERE	United Petroleum (former 7-Eleven) Service Station Rydalmere	262-272 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.81006724	151.032377
RYDE	Shell Coles Express Ryde	45 Lane Cove ROAD	Service Station	Regulation under CLM Act not required	-33.80726028	151.109981
RYDE	Caltex Service Station	110 Lane Cove ROAD	Service Station	Regulation under CLM Act not required	-33.80142973	151.1137925
RYDE	7-Eleven (former Mobil) Service Station	326-328 Blaxland ROAD	Service Station	Regulation under CLM Act not required	-33.80242183	151.1004278
RYDE	Ryde Bus Depot	51 - 75 Buffalo ROAD	Other Petroleum	Regulation under CLM Act not required	-33.81679771	151.1225255
SANCTUARY POINT	United Service Station, Sanctuary Point	147 Larmer AVENUE	Service Station	Regulation under CLM Act not required	-35.09918861	150.6329537
SANDGATE	Caltex Service Station Sandgate	162 Maitland ROAD	Service Station	Regulation under CLM Act not required	-32.86501596	151.706161
SANDGATE	North Limited Storage Handling facility	Maitland ROAD	Other Industry	Contamination formerly regulated under the CLM Act	-32.86598453	151.7012866
SANS SOUCI	7-Eleven (Former Mobil) Service Station	474 Rocky Point ROAD	Service Station	Regulation under CLM Act not required	-33.99088939	151.1333779
SANS SOUCI	BP Sans Souci	520 Rocky Point ROAD	Service Station	Contamination currently regulated under CLM Act	-33.99245122	151.1323571
SANS SOUCI	Kendall Street Reserve	Lawson Street and Kendall STREET	Landfill	Under preliminary investigation order	-33.99966431	151.13005
SANS SOUCI	Former Service Station	542-544 Rocky Point ROAD	Service Station	Contamination was addressed via the planning process (EP&A Act)	-33.99376148	151.1316131
SANS SOUCI	Former 7-Eleven Ramsgate	368 Rocky Point ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.98615125	151.1359961
SCHOFIELDS	Reserve 478, Grange Avenue, Schofields	Reserve 478, Grange AVENUE	Landfill	Under assessment	-33.697834	150.866714
SCONE	Shell Coles Express Service Station	91- 93 Kelly STREET	Service Station	Contamination currently regulated under CLM Act	-32.04715941	150.8676346

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
SCONE	Scone Works Depot	220 Susan STREET	Other Petroleum	Regulation under CLM Act not required	-32.04444892	150.879152
SCONE	Mobil Scone Airport Elt	8 Walter Pye AVENUE	Other Petroleum	Regulation under CLM Act not required	-32.03596733	150.8323698
SCONE	BP - Former Depot	Scone St, Guernsey St & Susan STREET	Service Station	Contamination formerly regulated under the CLM Act	-32.04599284	150.8662046
SCONE	BP Scone	26 Kelly STREET	Service Station	Regulation under CLM Act not required	-32.04033034	150.86549
SCONE	BP Scone Service Station	58 Kelly STREET	Service Station	Contamination currently regulated under CLM Act	-32.043757	150.866299
SEVEN HILLS	7-Eleven (Former Mobil) Service Station Seven Hills	151 Prospect HIGHWAY	Service Station	Regulation under CLM Act not required	-33.76894646	150.9427004
SEVEN HILLS	Australia Post	3 Powers ROAD	Unclassified	Regulation under CLM Act not required	-33.77434009	150.9395495
SEVEN HILLS	Car Park (Former Brickworks / Warehouse)	1 Powers ROAD	Other Industry	Regulation under CLM Act not required	-33.77387442	150.9379787
SEVEN HILLS	BP-branded Jasbe Petroleum Service Station	156 Prospect HIGHWAY	Service Station	Regulation under CLM Act not required	-33.76906502	150.9414821
SEVEN HILLS	Caltex Service Station	38 Abbott ROAD	Service Station	Regulation under CLM Act not required	-33.76692649	150.9548271
SEVEN HILLS	Caltex Service Station Seven Hills	105 Station ROAD	Service Station	Regulation under CLM Act not required	-33.77435881	150.9448733
SEVEN HILLS	Former Australian Waste Oil Refineries Site	27 Powers ROAD	Other Industry	Contamination formerly regulated under the CLM Act	-33.77536127	150.9511122
SHELLY BEACH	Former Shelly Beach Landfill	Oaks AVENUE	Landfill	Regulation under CLM Act not required	-33.36700551	151.4913631
SHORTLAND	Former Astra Street Landfill	2 (part) & 28 (part) Astra STREET	Landfill	Contamination currently regulated under CLM Act	-32.8689426	151.6974685
SHORTLAND	Tuxford Park landfill	10 King STREET	Landfill	Regulation under CLM Act not required	-32.87721139	151.6936837
SHORTLAND	Former Lorna St landfill	8/475 Sandgate ROAD	Landfill	Regulation under CLM Act not required	-32.87888726	151.7023245

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
SHORTLAND	7-Eleven (Former BP) Service Station	298-302 Sandgate ROAD	Service Station	Regulation under CLM Act not required	-32.8861645	151.6953912
SHORTLAND	Shortland Wastewater Treatment Works	Aden STREET	Other Industry	Under assessment	-32.883137	151.685439
SILVERWATER	Former Silverwater Landfill	Carnarvon ROAD	Landfill	Contamination currently regulated under CLM Act	-33.83506394	151.033214
SILVERWATER	Vacant property	103-105 Silverwater ROAD	Other Industry	Regulation under CLM Act not required	-33.83831374	151.0472576
SILVERWATER	Storage Facility	54-58 Derby STREET	Unclassified	Under assessment	-33.83855869	151.0478649
SILVERWATER	Former Printing Facility	46-58 Derby STREET	Other Industry	Under assessment	-33.83866058	151.0482675
SILVERWATER	Silverwater Correctional Complex	Holker STREET	Landfill	Regulation under CLM Act not required	-33.83123611	151.0585298
SINGLETON	BP Service Station Singleton	53 George (Cnr Macquarie St) STREET	Other Petroleum	Regulation under CLM Act not required	-32.56182325	151.1748054
SINGLETON	Singleton Gasworks	55-57 John STREET	Gasworks	Contamination formerly regulated under the CLM Act	-32.56774715	151.1658188
SINGLETON	Shell Coles Express Service Station	69-73 George STREET	Service Station	Regulation under CLM Act not required	-32.56297156	151.1755215
SINGLETON	Mobil Singleton Airport Elt	74B Range ROAD	Other Petroleum	Regulation under CLM Act not required	-32.60270846	151.1944828
SINGLETON	Putty Saw Mill	(via Singleton) Putty ROAD	Other Industry	Contamination currently regulated under CLM Act	-32.99958725	150.7111684
SINGLETON	NSW Mines Rescue Services - Singleton	6 Lachlan AVENUE	Other Industry	Regulation under CLM Act not required	-32.54537821	151.156584
SMITHFIELD	Caltex Smithfield	16-18 Tait STREET	Service Station	Regulation under CLM Act not required	-33.84596441	150.9435497
SMITHFIELD	Freestones	1 Hume ROAD	Other Petroleum	Regulation under CLM Act not required	-33.83577694	150.9310112
SMITHFIELD	Liquip International	13 Hume ROAD	Other Industry	Regulation under CLM Act not required	-33.83802635	150.9319034

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
SMITHFIELD	Coles Express (former Mobil) Service Station	678 The Horsley Drive, corner Smithfield ROAD	Service Station	Regulation under CLM Act not required	-33.85376154	150.9400104
SMITHFIELD	Former Landfill	Little STREET	Landfill	Contamination being managed via the planning process (EP&A Act)	-33.85025253	150.9411561
SOUTH ALBURY	BP Border Service Station	Corner Ebden Street and Wodonga PLACE	Service Station	Contamination formerly regulated under the CLM Act	-36.08875942	146.9093882
SOUTH BOWENFELS	Shell Coles Express Service Station	Lot 1 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.50589001	150.1238487
SOUTH COOGEE	Caltex South Coogee Service Station	169-173 Malabar ROAD	Service Station	Regulation under CLM Act not required	-33.93233184	151.2574377
SOUTH GRAFTON	Shell Coles Express Service Station	91 Bent STREET	Service Station	Regulation under CLM Act not required	-29.70605829	152.9400329
SOUTH GRAFTON	Former United (former Mobil) Service Station	Corner Pacific Highway and Charles STREET	Service Station	Regulation under CLM Act not required	-29.70814828	152.9412928
SOUTH GRAFTON	Former Caltex Service Station	46-58 Schwinghammer STREET	Service Station	Regulation under CLM Act not required	-29.71149672	152.9453337
SOUTH GRAFTON	Former Caltex Depot South Grafton	72-82 Swallow ROAD	Other Petroleum	Regulation under CLM Act not required	-29.73168549	152.944024
SOUTH GRAFTON	Caltex Service Station	Pacific Hwy Cnr Gwyder HIGHWAY	Service Station	Regulation under CLM Act not required	-29.70739015	152.9425508
SOUTH GRANVILLE	Enhance Service Station South Granville	2 Rawson ROAD	Service Station	Regulation under CLM Act not required	-33.86366193	151.0088768
SOUTH KEMPSEY	Caltex Service Station	52 Lachlan STREET	Service Station	Regulation under CLM Act not required	-31.09361084	152.8370796
SOUTH LISMORE	North Coast Petroleum (Former Mobil) Depot Lismore	19-21 Elliot ROAD	Other Petroleum	Regulation under CLM Act not required	-28.81212046	153.2661935
SOUTH LISMORE	Former Mobil Service Station	126 - 128 Union STREET	Service Station	Regulation under CLM Act not required	-28.81242175	153.267541
SOUTH LISMORE	Caltex Service Station	237 Union STREET	Service Station	Regulation under CLM Act not required	-28.82052708	153.2648111
SOUTH LISMORE	Former Mobil Depot	26-32 Phyllis STREET	Other Petroleum	Regulation under CLM Act not required	-28.81005206	153.2660073

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
SOUTH MURWILLUMBAH	Former Caltex Depot	39 Lundberg DRIVE	Service Station	Regulation under CLM Act not required	-28.332622	153.4212884
SOUTH MURWILLUMBAH	Caltex Service Station	1-7 Buchanan (Cnr Tweed Valley Way) STREET	Service Station	Regulation under CLM Act not required	-28.32687988	153.4093274
SOUTH MURWILLUMBAH	Former Mobil Depot	45 Wardrop STREET	Other Petroleum	Regulation under CLM Act not required	-28.33421395	153.3993772
SOUTH NOWRA	Caltex South Nowra	100 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.90516081	150.6029621
SOUTH PENRITH	7-Eleven Service Station	45 Aspen STREET	Service Station	Regulation under CLM Act not required	-33.77727694	150.7107228
SOUTH TAMWORTH	Coles Express Tamworth	251 - 253 Goonoo Goonoo ROAD	Service Station	Contamination currently regulated under CLM Act	-31.1118945	150.9228523
SOUTH TAMWORTH	Caltex Service Station	2 Kathleen Street, corner Kent STREET	Service Station	Regulation under CLM Act not required	-31.10361712	150.9186343
SOUTH WENTWORTHVILLE	Aldi Stores Development	331-339 Great Western HIGHWAY	Metal Industry	Regulation under CLM Act not required	-33.81605854	150.9697429
SOUTH WENTWORTHVILLE	Caltex Service Station	313 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.81643692	150.9718802
SOUTH WEST ROCKS	Former Trial Bay Caltex Depot	Phillip DRIVE	Other Petroleum	Regulation under CLM Act not required	-30.89190078	153.0573056
SOUTH WEST ROCKS	Former Shell Trial Bay Depot	Phillip DRIVE	Other Petroleum	Regulation under CLM Act not required	-30.89273836	153.0612772
SOUTH WEST ROCKS	Residential area and Reserve opposite Former Caltex terminal	Phillip DRIVE	Other Petroleum	Regulation under CLM Act not required	-30.89172594	153.0573164
SPRINGVALE	Springvale Colliery	Castlereagh HIGHWAY	Other Industry	Regulation under CLM Act not required	-33.40334736	150.1070462
ST CLAIR	7-Eleven (former Mobil) Service Station	4 Endeavour AVENUE	Service Station	Regulation under CLM Act not required	-33.79430926	150.7885793
ST IVES	7-Eleven (former Mobil) St Ives Service Station	157-159 Mona Vale Road, corner Putarri AVENUE	Service Station	Regulation under CLM Act not required	-33.73265301	151.1563899
ST IVES	Caltex Service Station	452 Mona Vale ROAD	Service Station	Regulation under CLM Act not required	-33.70752272	151.187545

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ST IVES	Caltex Service Station	164 Mona Vale ROAD	Service Station	Regulation under CLM Act not required	-33.7307595	151.1570462
ST IVES	Caltex Service Station St Ives	363 Mona Vale ROAD	Service Station	Regulation under CLM Act not required	-33.7168971	151.1735263
ST IVES	Shell Service Station	179-181 Mona Vale ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.73124859	151.1575827
ST LEONARDS	Telstra Data Centre	4A Herbert STREET	Other Petroleum	Regulation under CLM Act not required	-33.81873741	151.1914222
ST MARYS	Former Woolworths Service Station	120-128 Forrester ROAD	Service Station	Regulation under CLM Act not required	-33.75525115	150.7752897
ST MARYS	7-Eleven (former Mobil) Service Station	2 Christie STREET	Service Station	Regulation under CLM Act not required	-33.74790843	150.7767667
ST MARYS	7-Eleven (former Mobil) Service Station	2 Wilson STREET	Service Station	Regulation under CLM Act not required	-33.77790415	150.771689
ST MARYS	Solveco	38 LINKS ROAD	Other Industry	Contamination currently regulated under CLM Act	-33.73875413	150.7716457
ST MARYS	Integral Energy Mt Druitt Transmission Substation	69 Kurrajong North ROAD	Other Industry	Regulation under CLM Act not required	-33.76376093	150.7921691
ST MARYS	Caltex St Marys Service Station	Wordoo St Cnr Forrester ROAD	Service Station	Regulation under CLM Act not required	-33.75334263	150.7755489
ST MARYS	Chemcolour Industries	19-25 Anne STREET	Chemical Industry	Regulation under CLM Act not required	-33.75027071	150.7725397
ST MARYS	Old Drycleaning location	1-7 Queen STREET	Other Industry	Under assessment	-33.76223376	150.774412
ST MARYS	St Mary's Shopping Village	10 Charles Hackett DRIVE	Other Industry	Regulation under CLM Act not required	-33.76647672	150.7710143
ST PETERS	Cooks River Rail Terminal	20 Canal ROAD	Unclassified	Regulation under CLM Act not required	-33.91943986	151.1726689
ST PETERS	Camdenville Park	May STREET	Other Industry	Regulation under CLM Act not required	-33.90911815	151.176951
ST PETERS	Former Tidyburn Facility	53 Barwon Park ROAD	Chemical Industry	Contamination formerly regulated under the CLM Act	-33.9130091	151.1809912

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ST PETERS	BP Express Service Station	2 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-33.90982281	151.1809936
ST PETERS	Former Industrial Manufacturing Facility (Taubman's Paints)	75 Mary STREET	Other Industry	Regulation under CLM Act not required	-33.91307297	151.1731383
ST PETERS	Burrows Industrial Estate	1-3 Burrows ROAD	Landfill	Regulation under CLM Act not required	-33.918118	151.178838
STANMORE	125 Corunna Road	125 Corunna ROAD	Unclassified	Regulation under CLM Act not required	-33.88937382	151.1644589
STOCKTON	Former Coroba Landfill	310 Fullerton STREET	Landfill	Regulation under CLM Act not required	-32.89578751	151.7898857
STRATHFIELD	7-Eleven (former Mobil) Service Station	577 Liverpool ROAD	Service Station	Regulation under CLM Act not required	-33.88736091	151.0743474
STRATHFIELD SOUTH	Former Landfill Site	7-9 Dunlop STREET	Landfill	Regulation under CLM Act not required	-33.89509698	151.0796751
STROUD	Stroud Fuel Supplies (Former Caltex) Service Station	1 Cowper STREET	Service Station	Regulation under CLM Act not required	-32.39092749	151.9563089
SUFFOLK PARK	BP Service Station	207-209 Broken Head ROAD	Service Station	Regulation under CLM Act not required	-28.68800088	153.6083821
SUFFOLK PARK	Suffolk Park dip site	Cnr Broken Head Road & Beech DRIVE	Cattle Dip	Regulation under CLM Act not required	-28.6874242	153.6072824
SUMMER HILL	Maurice Dry Cleaners	150 Smith STREET	Other Industry	Under assessment	-33.891881	151.137264
SURRY HILLS	Woolworths Petrol Surry Hills	475 Cleveland STREET	Service Station	Regulation under CLM Act not required	-33.89223271	151.2161434
SURRY HILLS	Former Legion Cabs (Trading) Cooperative	81 & 81A (Formerly 69 - 81) Foveaux STREET	Service Station	Regulation under CLM Act not required	-33.88470082	151.2107944
SURRY HILLS	Ausgrid Road Reserve	Mary STREET	Other Industry	Regulation under CLM Act not required	-33.88292195	151.2095176
SUTHERLAND	United Service Station and Sutherland Reservoir	1 to 3 Oxford STREET	Service Station	Contamination currently regulated under CLM Act	-34.029532	151.0579906
SUTHERLAND	7-Eleven Service Station	693 Old Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.02976735	151.0588789

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
SUTTON FOREST	Coles Express Sutton Forest West	Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-34.60808989	150.2250592
SWANSEA	Caltex Service Station	126 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.08811841	151.6381764
SWANSEA	Swansea 1 - Wastewater Pumping Station	137 and 137a Northcote AVENUE	Other Industry	Regulation under CLM Act not required	-33.09733813	151.6473669
SYDENHAM	SRA Land	117 Railway PARADE	Other Industry	Regulation under CLM Act not required	-33.91560723	151.1656846
SYDENHAM	Sydenham XPT Maintenance Facility	Way STREET	Other Industry	Regulation under CLM Act not required	-33.91698468	151.1614089
SYDNEY	Interpro House (OSP 46581)	447 Kent STREET	Other Petroleum	Regulation under CLM Act not required	-33.87225413	151.204761
SYDNEY	Eurostar Dry Cleaners	100 Oxford STREET	Chemical Industry	Regulation under CLM Act not required	-33.8792987	151.2156647
SYDNEY OLYMPIC PARK	RMS Western Precinct	14A-14E and 16 Hill ROAD	Other Petroleum	Regulation under CLM Act not required	-33.82239777	151.0758664
SYDNEY OLYMPIC PARK	Haslams Creek South Area 3	At Kronos Hill, Kevin Coombes AVENUE	Landfill	Contamination formerly regulated under the CLM Act	-33.84113059	151.0602966
SYDNEY OLYMPIC PARK	Bicentennial Park	Bicentennial DRIVE	Landfill	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.84456248	151.0788116
SYDNEY OLYMPIC PARK	Former Golf Driving Range Landfill	Sarah Durack AVENUE	Landfill	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.85358517	151.0713987
SYDNEY OLYMPIC PARK	Kronos Hill Landfill	Kevin Coombes AVENUE	Landfill	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.84014442	151.0649521
SYDNEY OLYMPIC PARK	Wilson Park (Former oil gas plant site)	Newington ROAD	Gasworks	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.82623982	151.0536833
SYDNEY OLYMPIC PARK	Woo-la-ra Landfill	Hill ROAD	Landfill	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.82695807	151.07282
SYDNEY OLYMPIC PARK	Aquatic Centre Carpark Landfill	Shane Gould AVENUE	Landfill	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.85153457	151.0678127
SYDNEY OLYMPIC PARK	Blaxland Common Landfill	Jamieson STREET	Landfill	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.82638382	151.05972

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
SYLVANIA	Caltex Service Station	61 Port Hacking ROAD	Service Station	Regulation under CLM Act not required	-34.0140089	151.104212
SYLVANIA HEIGHTS	Ampol Service Station (former Caltex) - Sylvania Heights	414-416 Princes HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-34.02361051	151.0895394
TALBINGO	Old Town Landfill	Bridle STREET	Landfill	Regulation under CLM Act not required	-35.59018237	148.3041771
TALBINGO	T3 Spoil dump and adjoining river sediments	Off Snowy Mountains HIGHWAY	Landfill	Contamination formerly regulated under the CLM Act	-35.6177268	148.2926158
TALBINGO	Former grit blasting site	Old Damsite ROAD	Other Industry	Regulation under CLM Act not required	-35.60894551	148.3030165
TAMINDA	Mobil Depot	9 Hinkler ROAD	Other Petroleum	Regulation under CLM Act not required	-31.09584286	150.9040493
TAMWORTH	Caltex Tamworth Service Station	109 Gunnedah ROAD	Service Station	Regulation under CLM Act not required	-31.09723226	150.8955299
TAMWORTH	Curlew Crescent	19-29 Curlew CRESCENT	Metal Industry	Regulation under CLM Act not required	-31.06963607	150.9069306
TAMWORTH	Former Service Station, Fitzpatrick Super Fund, Tamworth	210 Goonoo Goonoo ROAD	Service Station	Regulation under CLM Act not required	-31.10613594	150.9234143
TAMWORTH	Gunnedah Road Site	49 GUNNEDAH ROAD	Other Industry	Contamination formerly regulated under the CLM Act	-31.09574904	150.9021583
TAMWORTH	Elovera Former Sheep Dip	730 Ascot Calala ROAD	Cattle Dip	Regulation under CLM Act not required	-31.1801846	150.962897
TAMWORTH	Housing NSW	29 -33 White STREET	Other Petroleum	Regulation under CLM Act not required	-31.0915651	150.9357811
TAMWORTH	BP Tamworth Service Station and Depot	27-29 Gunnedah ROAD	Other Petroleum	Under assessment	-31.09642128	150.9058193
TAMWORTH	Former Mobil Service Station	373-375 Armidale ROAD	Service Station	Regulation under CLM Act not required	-31.10122679	150.9441341
TAMWORTH	Kensell's Mitsubishi	11-14 Kable AVENUE	Other Petroleum	Regulation under CLM Act not required	-31.08921565	150.9273063
TAMWORTH	Caltex Star Tamworth	21 White STREET	Service Station	Regulation under CLM Act not required	-31.09255137	150.9341709

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
TAMWORTH	Former Service Station Tamworth	(Cnr Scott Rd) 254-256 Goonoo Goonoo ROAD	Service Station	Regulation under CLM Act not required	-31.1118945	150.9228523
TAMWORTH	Cleanaway Operations Pty Ltd	31 Gunnedah ROAD	Other Industry	Under assessment	-31.09621029	150.9051567
TAMWORTH	Elgas Depot (former gasworks)	115 Marius STREET	Gasworks	Under preliminary investigation order	-31.08546191	150.926437
TAMWORTH	Proposed ALDI Store Tamworth	194-196 Peel STREET	Other Industry	Under assessment	-31.08522053	150.9260054
TARAGO	Tarago Railway Siding	Goulburn STREET	Other Industry	Contamination currently regulated under CLM Act	-35.0695949	149.6516166
TARCUTTA	Mobil Service Station	(Hume Highway) 32 Sydney STREET	Service Station	Contamination formerly regulated under the CLM Act	-35.2772942	147.73574
TAREE	Caltex Taree	12 Pitt STREET	Service Station	Regulation under CLM Act not required	-31.90551738	152.4783334
TAREE	Former Caltex Depot	44 Stevenson STREET	Other Petroleum	Regulation under CLM Act not required	-31.90563595	152.4640848
TAREE	Former BP Service Station (Reliance Petroleum)	150 Manning River DRIVE	Service Station	Regulation under CLM Act not required	-31.93842026	152.4682056
TAREE	Former Shell Depot	53-55 Stevenson STREET	Other Petroleum	Regulation under CLM Act not required	-31.90514622	152.4649706
TAREE	United Service Station and Former Mobil Depot	85 Muldoon Street, corner Grey Gum ROAD	Service Station	Regulation under CLM Act not required	-31.89744109	152.4508569
TAREE	Caltex Service Station	104-106 Commerce STREET	Service Station	Regulation under CLM Act not required	-31.90720519	152.4500926
TAREE	Footpath in front of the former BP service station	53-55 Victoria STREET	Service Station	Regulation under CLM Act not required	-31.91015653	152.4659073
TAREN POINT	Former Oyster Farm	Part 2R Alexander Avenue and part 98 Woodlands ROAD	Other Industry	Contamination was addressed via the planning process (EP&A Act)	-34.01714802	151.1252694
TAREN POINT	Former Oyster Farmer	1A Atkinson ROAD	Other Industry	Regulation under CLM Act not required	-34.02081803	151.1283282
TAREN POINT	Former manufacturing site	46-50 Bay ROAD	Other Industry	Regulation under CLM Act not required	-34.0236184	151.1231649

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
TAREN POINT	Mangrove Lane Cycle pathway	Mangrove LANE	Unclassified	Regulation under CLM Act not required	-34.02404025	151.1324783
TAREN POINT	Caltex Service Station	114 Taren Point ROAD	Service Station	Regulation under CLM Act not required	-34.02065958	151.1218938
TAREN POINT	Shell Coles Express Service Station	99-103 Parraweena ROAD	Service Station	Regulation under CLM Act not required	-34.02630233	151.1200897
TAREN POINT	Redevelopment Site	25 Bay ROAD	Landfill	Regulation under CLM Act not required	-34.02119591	151.1274727
TELARAH	Former Ausgrid Depot	Green STREET	Other Industry	Regulation under CLM Act not required	-32.7276446	151.5269745
TELARAH	ACIRL	5 Junction STREET	Other Industry	Regulation under CLM Act not required	-32.73457183	151.5400128
TEMORA	Woolworths Caltex Temora	98-100 Hoskins STREET	Service Station	Regulation under CLM Act not required	-34.44324584	147.5318667
TEMPE	Tempe Depot	1a Gannon STREET	Other Petroleum	Regulation under CLM Act not required	-33.92408255	151.1596469
TEMPE	Caltex Service Station	775 Princes HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-33.9253681	151.1596532
TEMPE	Former Tempe Tip	South STREET	Landfill	Contamination currently regulated under CLM Act	-33.92558642	151.1667178
TEMPE	Railcorp Site Renwick Street	Renwick STREET	Other Industry	Regulation under CLM Act not required	-33.91997709	151.1576058
TENTERFIELD	United Tenterfield Service Station	94 Rouse STREET	Service Station	Under assessment	-29.06260969	152.0168305
TERALBA	Lake Macquarie Teralba Sanitary Depot	Griffen ROAD	Landfill	Regulation under CLM Act not required	-32.9372059	151.6214528
TERALBA	Lucky's Scrap Metal Yard	21 Racecourse ROAD	Metal Industry	Contamination currently regulated under CLM Act	-32.946875	151.617105
TERANIA CREEK	Former Izzards Cattle Tick Dip	Wallace ROAD	Cattle Dip	Contamination formerly regulated under the CLM Act	-28.65425776	153.2767438
THE ROCKS	Dawes Point Park	Hickson ROAD	Other Industry	Regulation under CLM Act not required	-33.855356	151.209723

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THIRLMERE	Thirlmere Rail Heritage Museum	10 Barbour ROAD	Other Industry	Regulation under CLM Act not required	-34.20689245	150.5693902
THORNLEIGH	Caltex Thornleigh Service Station	192-198 Pennant Hills (Cnr Duffy Ave) ROAD	Service Station	Regulation under CLM Act not required	-33.72660793	151.08364
THORNLEIGH	Coles Express Service Station Thornleigh	188 - 190 Pennant Hills ROAD	Service Station	Regulation under CLM Act not required	-33.72502184	151.0850569
THORNTON	Energy Australia Thornton Pole Yard	55 Weakleys DRIVE	Other Industry	Regulation under CLM Act not required	-32.79973875	151.6374998
TIGHES HILL	Holcim Australia Cement Batching Plant	340 Industrial DRIVE	Other Industry	Regulation under CLM Act not required	-32.90532418	151.7574857
TIGHES HILL	SRA Land	73 Elizabeth STREET	Unclassified	Regulation under CLM Act not required	-32.90795794	151.754631
TIGHES HILL	Former Ampol Depot	94 Elizabeth STREET	Other Petroleum	Regulation under CLM Act not required	-32.90658137	151.757239
TIGHES HILL	Former Mobil Terminal	110 Elizabeth STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-32.90600406	151.7586907
TOCUMWAL	Former Mobil Depot	250 Murray STREET	Other Petroleum	Regulation under CLM Act not required	-35.79180653	145.5648214
TOCUMWAL	Former Mobil Depot	79-83 Deniliquin ROAD	Other Petroleum	Regulation under CLM Act not required	-35.80914914	145.5585528
TOMAGO	Balcombe Sweat Furnace	26 Laverick AVENUE	Metal Industry	Regulation under CLM Act not required	-32.82557395	151.7056416
TOMAGO	Former Hydromet Site	25 School DRIVE	Metal Industry	Under assessment	-32.8301553	151.7300603
TOMAGO	RZM Site - Tomago	1877 Pacific HIGHWAY	Other Industry	Regulation under CLM Act not required	-32.81419433	151.6985159
TOMERONG	Log Cabin Service Station (United Petroleum)	D1300 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-35.01820959	150.5779687
TOONGABBIE	7-Eleven (Former Mobil) Service Station Toongabbie	3 Metella ROAD	Service Station	Regulation under CLM Act not required	-33.78692357	150.9462837
TOORMINA	Caltex Service Station	2 Minorca PLACE	Service Station	Regulation under CLM Act not required	-30.35229568	153.0906606

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
TORONTO	Coles XP (Former Mobil) Toronto Service Station	133 - 137 Cary (Cnr Thorne St) STREET	Service Station	Regulation under CLM Act not required	-33.01187681	151.5930879
TORONTO	BP Toronto Service Station	132 Cary (Cnr Donnelly Ave) STREET	Service Station	Regulation under CLM Act not required	-33.01144673	151.5937863
TORONTO	Toronto Hotel	74 Victory PARADE	Unclassified	Regulation under CLM Act not required	-33.01214835	151.5958127
TORONTO	Caltex Service Station	147 Cary STREET	Service Station	Regulation under CLM Act not required	-33.01288007	151.5928388
TORONTO	155B Brighton Avenue, Toronto NSW 2283	155B Brighton AVENUE	Other Industry	Under assessment	-33.014812	151.599856
TOUKLEY	Former Shell Toukley Autoport	211 Main ROAD	Service Station	Regulation under CLM Act not required	-33.26383791	151.5386268
TOUKLEY	7-Eleven Australia	287 Main ROAD	Service Station	Regulation under CLM Act not required	-33.26469166	151.5462414
TRANGIE	Caltex Service Station	(Mitchell Hwy) 76 Narromine STREET	Service Station	Regulation under CLM Act not required	-32.03234676	147.985164
TUGGERAH	BP Tuggerah	100 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.30578167	151.4198083
TUMBARUMBA	Former Caltex Depot	150 Albury STREET	Other Petroleum	Regulation under CLM Act not required	-35.77024081	147.9927182
TUMBI UMBI	Former Tumbi Landfill	140 Bellevue ROAD	Landfill	Regulation under CLM Act not required	-33.3993472	151.456471
TUMUT	CSR Blue Dam	Jepsen AVENUE	Other Industry	Regulation under CLM Act not required	-35.30098337	148.1958308
TUMUT	CSR Railway cutting	Jepsen AVENUE	Unclassified	Under assessment	-35.30422002	148.1942579
TUMUT	Former Telstra Depot	22-26 Carey STREET	Other Industry	Regulation under CLM Act not required	-35.29873079	148.2191122
TUNCESTER	Asbestos Waste Burial Site	13 Rifle Range ROAD	Other Industry	Contamination currently regulated under CLM Act	-28.79939255	153.2193708
TUROSS HEAD	Tern Inn Restaurant (abandoned UPSS)	2 Trafalgar ROAD	Service Station	Regulation under CLM Act not required	-36.05871059	150.1308443

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
TURRAMURRA	7-Eleven (former Mobil) Service Station Turramurra	1408 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.73326389	151.1264194
TURRAMURRA	Woolworths Service Station	1233 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.73317594	151.1313195
TURRELLA	Tulloch Australia Pty Ltd	61 Turrella STREET	Chemical Industry	Contamination currently regulated under CLM Act	-33.92857213	151.1475387
TWEED HEADS	Former Mobil Quix Service Station	60 MINJUNGBAL DRIVE	Service Station	Contamination formerly regulated under the CLM Act	-28.20143775	153.5445381
TWEED HEADS	Francis Street Road Reserve adjacent to 79-81 Wharf Street, Tweed Heads	79-81 Wharf STREET	Other Petroleum	Regulation under CLM Act not required	-28.17351959	153.542262
TWEED HEADS SOUTH	Former BP Depot	142 Minjungbal DRIVE	Other Petroleum	Regulation under CLM Act not required	-28.20860702	153.5455932
TWEED HEADS SOUTH	Coles Express Service Station	Corner Minjungbal Drive and Heffron STREET	Service Station	Regulation under CLM Act not required	-28.19459987	153.5419978
TWEED HEADS SOUTH	Woolworths Plus Petrol	98-102 Pacific (100 Minjungbal Drive) HIGHWAY	Service Station	Regulation under CLM Act not required	-28.20488521	153.5448675
TWEED HEADS WEST	Caltex Service Station	96 to 98 Kennedy DRIVE	Service Station	Regulation under CLM Act not required	-28.1871486	153.5229866
TYAGARAH	Tyagarah Airstrip	25 Staceys WAY	Other Petroleum	Regulation under CLM Act not required	-28.59511995	153.546834
ULAN	Ulan Coal Mine	4505 Ulan ROAD	Other Industry	Regulation under CLM Act not required	-32.25620603	149.7558075
ULLADULLA	Coles Express Ulladulla	153 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-35.36288274	150.47272
ULLADULLA	Woolworths Petrol Station	155-157 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-35.36316263	150.4725668
ULLADULLA	Caltex Service Station	62A Deering Street, corner Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-35.36276828	150.473578
ULTIMO	Shell Coles Express Service Station	387-429 Wattle STREET	Service Station	Regulation under CLM Act not required	-33.88138825	151.1966791
UNANDERRA	Endeavour Energy Springhill Field Service Centre	195 Five Island ROAD	Other Industry	Regulation under CLM Act not required	-34.45837706	150.8598825

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UNANDERRA	BlueScope Stainless Steel	13 Marley PLACE	Metal Industry	Contamination currently regulated under CLM Act	-34.44959798	150.8571632
UNANDERRA	Unanderra Weekend Detention Centre	34-40 Lady Penryhn DRIVE	Landfill	Regulation under CLM Act not required	-34.4620226	150.8473821
UNANDERRA	Veolia Environmental Services	9 Waynote PLACE	Other Industry	Regulation under CLM Act not required	-34.46042393	150.863232
UNANDERRA	Caltex Service Station	86-98 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.45414951	150.845165
UNANDERRA	Former Prime Service Station and adjoining lands	41-49 Princes HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-34.45056105	150.8490833
URALLA	Caltex Service Station	103 Bridge STREET	Service Station	Regulation under CLM Act not required	-30.64524911	151.4934484
URALLA	Phoenix Foundry	44 Duke STREET	Metal Industry	Regulation under CLM Act not required	-30.65093272	151.5004479
URANQUINTY	Former Caltex Depot Kapooka (Wagga Wagga)	6876 Olympic (Uranquinty Rd) HIGHWAY	Service Station	Regulation under CLM Act not required	-35.15319793	147.3085469
URUNGA	Former Antimony Process plant	Hillside DRIVE	Chemical Industry	Contamination currently regulated under CLM Act	-30.50422942	153.0132011
VALENTINE	BP Express Service Station	855 Macquarie DRIVE	Service Station	Regulation under CLM Act not required	-33.00801109	151.6425806
VALENTINE	Valentine Public School	Tallawalla ROAD	Unclassified	Regulation under CLM Act not required	-33.0091613	151.6423231
VALLA	BP Nambucca Heads (Travel Centre and Truckstop)	2 Corkwood ROAD	Other Industry	Regulation under CLM Act not required	-30.626033	152.973825
VILLAWOOD	Nepotian (Former Toll) Site	110A Christina ROAD	Other Industry	Under preliminary investigation order	-33.87919117	150.9812193
VILLAWOOD	Former Defence Site	29 Biloela STREET	Landfill	Regulation under CLM Act not required	-33.88782978	150.9886275
VILLAWOOD	Former Siemens/Westinghouse	49 Miowera ROAD	Other Industry	Contamination formerly regulated under the CLM Act	-33.87641909	150.9836746
VILLAWOOD	Former Orica Crop Care	2 Christina ROAD	Chemical Industry	Contamination currently regulated under CLM Act	-33.880329	150.9896329

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
VILLAWOOD	PPG Industries	9 Birmingham AVENUE	Chemical Industry	Regulation under CLM Act not required	-33.87800757	150.9887929
VILLAWOOD	Former Electrical Component Manufacturer	66 Christina ROAD	Other Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.88018315	150.9838773
VILLAWOOD	Ettason Villawood Site	2A Birmingham AVENUE	Chemical Industry	Under preliminary investigation order	-33.87877335	150.9827722
VINEYARD	Shell Coles Express Service Station	731 Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.65780463	150.8753245
WAGGA WAGGA	Caltex Service Station	170 Fitzmaurice STREET	Service Station	Regulation under CLM Act not required	-35.10289587	147.3679002
WAGGA WAGGA	Former BP Service Station	31 Bourke STREET	Service Station	Regulation under CLM Act not required	-35.12626628	147.3547199
WAGGA WAGGA	Caltex (former Mobil) Service Station	106 Edward STREET	Service Station	Regulation under CLM Act not required	-35.11910909	147.3682364
WAGGA WAGGA	Former Caltex Depot	60 Lake Albert DRIVE	Service Station	Regulation under CLM Act not required	-35.12316794	147.37724
WAGGA WAGGA	Former Mobil Depot Wagga Wagga	97-99 Coleman STREET	Other Petroleum	Regulation under CLM Act not required	-35.12173871	147.3576651
WAGGA WAGGA	Ashmont Autoport	Cnr Tobruk Street and Bardia STREET	Service Station	Regulation under CLM Act not required	-35.12517373	147.329919
WAGGA WAGGA	Former Caltex Service Station	343 Hammond AVENUE	Service Station	Regulation under CLM Act not required	-35.12420793	147.4157959
WAGGA WAGGA	Caltex Service Station	56 - 60 Docker St STREET	Service Station	Regulation under CLM Act not required	-35.11737947	147.3558145
WAGGA WAGGA	Former Iron Foundry	212-230 Hammond STREET	Metal Industry	Regulation under CLM Act not required	-35.12605478	147.4045461
WAGGA WAGGA	Coles Express Wagga Wagga	353-355 Edward STREET	Service Station	Regulation under CLM Act not required	-35.11606625	147.3509339
WAGGA WAGGA	Former Wiradjuri landfill	Narrung STREET	Landfill	Under assessment	-35.09628532	147.3619535
WAGGA WAGGA	Former Gasworks	54 Chaston STREET	Gasworks	Ongoing maintenance required to manage residual contamination (CLM Act)	-35.12262069	147.3482778

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
WAGGA WAGGA	Former Gasworks	Cnr Tarcutta Street and Cross STREET	Gasworks	Ongoing maintenance required to manage residual contamination (CLM Act)	-35.10871183	147.3737933
WAGGA WAGGA	BP Wagga Wagga	180 Edward STREET	Service Station	Regulation under CLM Act not required	-35.11850802	147.3639619
WAGGA WAGGA	Former Dry Cleaning Facility	183 Fitzmaurice STREET	Other Industry	Contamination currently regulated under CLM Act	-35.10209987	147.3683852
WAHROONGA	Coles Express Wahroonga	1601 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.71945571	151.1163002
WAHROONGA	7-Eleven Service Station	1579 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.71974617	151.1168106
WAITARA	Caltex Service Station	59-61 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.71064349	151.1024644
WALGETT	Former Shell Depot	Castlereagh HIGHWAY	Other Petroleum	Regulation under CLM Act not required	-30.00861179	148.1239938
WALLERAWANG	Wallerawang Power Station	1 Main STREET	Other Petroleum	Regulation under CLM Act not required	-33.40339296	150.0855101
WALLERAWANG	Lidsdale Coal Loading Facility	Main STREET	Other Industry	Regulation under CLM Act not required	-33.39996523	150.0737717
WALLSEND	Caltex Maryland Service Station Wallsend	41 Minmi ROAD	Service Station	Regulation under CLM Act not required	-32.88967866	151.6619253
WALLSEND	Coles Express Wallsend East	15 Thomas STREET	Service Station	Regulation under CLM Act not required	-32.90719444	151.6693426
WALLSEND	OneSteel Recycling	64-80 Sandgate ROAD	Metal Industry	Regulation under CLM Act not required	-32.89425477	151.6799648
WALLSEND	Ausgrid Wallsend Depot	Abbott STREET	Other Industry	Regulation under CLM Act not required	-32.90162796	151.6857267
WALLSEND	Cnr of Douglas Street and 111 Newcastle Road Wallsend	111 Newcastle ROAD	Metal Industry	Regulation under CLM Act not required	-32.90416617	151.6832227
WAMBERAL	Caltex Service Station	654 The Entrance ROAD	Service Station	Regulation under CLM Act not required	-33.42338668	151.4375685
WANGI WANGI	Myuna Colliery	Wangi Point ROAD	Other Industry	Regulation under CLM Act not required	-33.06139532	151.5697186

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
WARATAH	Waratah Area Health	Turton ROAD	Unclassified	Regulation under CLM Act not required	-32.90961233	151.7260867
WARATAH	Waratah former Gasworks	Turton and Georgetown ROADS	Gasworks	Regulation being finalised	-32.90591166	151.7272715
WARDELL	Nancy's Cattle Dip, Thurgates Lane, Wardell	Thurgates LANE	Cattle Dip	Regulation under CLM Act not required	-28.9540212	153.4274874
WARILLA	Woolworths Petrol Warilla	43 -57 Shellharbour ROAD	Service Station	Regulation under CLM Act not required	-34.5470966	150.863748
WARKWORTH	Emulsion Plant, Dyno Nobel Asia Pacific Pty Ltd	186 Long Point ROAD	Chemical Industry	Regulation under CLM Act not required	-32.5781708	151.0834387
WARKWORTH	United Colliery	Jerrys Plains ROAD	Other Industry	Regulation under CLM Act not required	-32.5654356	150.9916698
WARNERS BAY	Caltex Service Station	55 King STREET	Service Station	Regulation under CLM Act not required	-32.97418806	151.6476184
WARNERS BAY	7-Eleven (former Mobil) Service Station	393 Hillsborough ROAD	Service Station	Regulation under CLM Act not required	-32.9659363	151.6543264
WARNERS BAY	Historically Filled Land	41-43 Charles STREET	Unclassified	Regulation under CLM Act not required	-32.97340461	151.6464383
WARNERVALE	Former Timber Treatment Plant	Aldenham and Railway ROADS	Other Industry	Contamination formerly regulated under the CLM Act	-33.24732018	151.4469037
WARRAGAMBA	Warragamba Dam Viewing Platform	Eighteenth STREET	Unclassified	Regulation under CLM Act not required	-33.88545624	150.6016219
WARRAGAMBA	Megarrity's Creek Site	Weir ROAD	Unclassified	Regulation under CLM Act not required	-33.8873146	150.5967305
WARRAWONG	Caltex Service Station	75-77 King STREET	Service Station	Regulation under CLM Act not required	-34.49037817	150.888802
WARREN	Former Shell Depot	8 Dubbo STREET	Other Petroleum	Regulation under CLM Act not required	-31.69379262	147.8308088
WARREN	Caltex Warren Service Station	1 Coonamble ROAD	Service Station	Regulation under CLM Act not required	-31.69508383	147.8405578
WARREN	Former Mobil Warren Depot	16 Dubbo STREET	Other Petroleum	Contamination currently regulated under CLM Act	-31.6943058	147.8314606

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
WARWICK FARM	Warwick Farm Public School	95 Lawrence Hargrave ROAD	Unclassified	Regulation under CLM Act not required	-33.90978695	150.9291852
WATERLOO	Proposed Construction Site	2 John STREET	Other Industry	Regulation under CLM Act not required	-33.89989686	151.2010324
WATERLOO	Waverley Woollahra Process Plant	355 Botany ROAD	Other Industry	Regulation under CLM Act not required	-33.9063092	151.2042672
WATERLOO	Shell Coles Express Service Station	867-877 South Dowling STREET	Service Station	Regulation under CLM Act not required	-33.90179774	151.2143789
WATERLOO	Lawrence Dry Cleaners	887-893 Bourke STREET	Unclassified	Contamination currently regulated under CLM Act	-33.89897433	151.2101436
WATERLOO	Diversity Waterloo Blocks C & D and adjacent plaza / park	1, 9, 13, 13A, 13B and 23 Archibald Avenue, 20 Dunkerley Place and 850 Bourke STREET	Other Industry	Regulation under CLM Act not required	-33.90200158	151.2098496
WATERLOO	Iconic (Former Chubb Factory) Waterloo	830-838 Elizabeth STREET	Other Industry	Regulation under CLM Act not required	-33.90227718	151.2060305
WATERLOO	22-24 Archibald Avenue	22-24 Archibald AVENUE	Other Petroleum	Regulation under CLM Act not required	-33.90206938	151.2139293
WAUCHOPE	Expressway Spares UST	3 Sancrox ROAD	Other Petroleum	Regulation under CLM Act not required	-31.44163879	152.8231104
WAUCHOPE	Former Shell Depot	56-64 High STREET	Other Petroleum	Regulation under CLM Act not required	-31.45804845	152.7314151
WAUCHOPE	Wauchope Service Station	57 High STREET	Service Station	Regulation under CLM Act not required	-31.45737022	152.7305018
WAUCHOPE	Former Timber Treatment Site	Blackbutt DRIVE	Other Industry	Regulation under CLM Act not required	-31.46575645	152.7228555
WAUCHOPE	Shell Coles Express Service Station	64 High STREET	Service Station	Regulation under CLM Act not required	-31.45764495	152.7315975
WAUCHOPE	Wauchope Public Primary School	2 Waugh STREET	Unclassified	Regulation under CLM Act not required	-31.45602953	152.7295059
WAVERTON	SRA Land	95 Bay ROAD	Unclassified	Contamination formerly regulated under the CLM Act	-33.83716728	151.1969497
WAVERTON	Berry's Bay Woodley's Marina	1 Balls Head DRIVE	Other Industry	Contamination formerly regulated under the POEO Act	-33.84441851	151.1947433

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
WAVERTON	Oyster Cove AGL	2 King STREET	Gasworks	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.83637995	151.193541
WEE JASPER	Wee Jasper Tavern	6499 Wee Jasper ROAD	Other Industry	Regulation under CLM Act not required	-35.10992483	148.679428
WELLINGTON	Former Caltex Service Station	124-128 Lee STREET	Service Station	Regulation under CLM Act not required	-32.55082729	148.9411537
WELLINGTON	BP Wellington Service Station	35A Maxwell STREET	Service Station	Under assessment	-32.55835121	148.9447284
WELLINGTON	Woolworths Petrol Wellington	79 Lee STREET	Service Station	Regulation under CLM Act not required	-32.54874227	148.9408531
WENTWORTH	Caltex - Wentworth	110 Adams STREET	Service Station	Regulation under CLM Act not required	-34.1024927	141.9160539
WENTWORTH FALLS	Bodington Hospital	Bodington DRIVE	Unclassified	Contamination formerly regulated under the CLM Act	-33.73204611	150.3874554
WENTWORTH POINT	RMS Eastern Precinct	3-7 Burroway ROAD	Other Petroleum	Regulation under CLM Act not required	-33.8233882	151.0815668
WENTWORTH POINT	Former TNT Express	23 Bennelong PARKWAY	Other Petroleum	Regulation under CLM Act not required	-33.83115118	151.0726636
WENTWORTHVILLE	Former Workshop	2 Rawson Rd and 8 Barfil CRESCENT	Unclassified	Regulation under CLM Act not required	-33.81568808	150.9671853
WERRINGTON	Caltex Service Station	Cnr Dunheved Rd and Henry Lawson DRIVE	Service Station	Regulation under CLM Act not required	-33.74577725	150.7409877
WERRINGTON	Claremont Meadows Former landfill	Gipps STREET	Landfill	Regulation under CLM Act not required	-33.77341076	150.7557628
WERRINGTON COUNTY	7-Eleven Werrington	Lot 122 Dunheved ROAD	Service Station	Regulation under CLM Act not required	-33.74699408	150.7428609
WEST BALLINA	Caltex Big Prawn Service Station	Pacific HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-28.86374913	153.5321482
WEST GOSFORD	Caltex Service Station	283 Manns ROAD	Service Station	Regulation under CLM Act not required	-33.41659727	151.325219
WEST GOSFORD	Caltex Service Station	69-71 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.42729985	151.3214621

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
WEST GOSFORD	Caltex Service Station	30a Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.42778813	151.3190581
WEST GOSFORD	Adcock Memorial Park	Central Coast HIGHWAY	Landfill	Contamination currently regulated under CLM Act	-33.42963075	151.3273331
WEST NOWRA	Endeavour Energy Nowra Field Service Centre	20 Depot ROAD	Other Industry	Regulation under CLM Act not required	-34.88993085	150.5878854
WEST PENNANT HILLS	7-Eleven (former Mobil) Service Station	552 Pennant Hills ROAD	Service Station	Regulation under CLM Act not required	-33.74686545	151.0508067
WEST RYDE	7-Eleven (former Mobil) Service Station	917 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.80921103	151.0932917
WEST RYDE	Pfizer Australia Pty Ltd	38-42 Wharf ROAD	Chemical Industry	Regulation under CLM Act not required	-33.81021085	151.0693631
WEST RYDE	Reckitt Benckiser	44 Wharf ROAD	Chemical Industry	Regulation under CLM Act not required	-33.81172205	151.0692752
WEST RYDE	JHM Property Development	2A Mellor STREET	Other Industry	Regulation under CLM Act not required	-33.81207534	151.094598
WEST TAMWORTH	Woolworths Petrol	119 Bridge STREET	Service Station	Regulation under CLM Act not required	-31.09358262	150.9167693
WEST WALLSEND	West Wallsend Cemetery	6 Cemetery ROAD	Unclassified	Under assessment	-32.902699	151.570679
WEST WYALONG	Lowes Petroleum (Former BP) Depot West Wyalong	Compton (formerly known as Town Bypass/Railway Road) ROAD	Other Petroleum	Regulation under CLM Act not required	-33.93440247	147.2154596
WEST WYALONG	Caltex Depot	(Wyalong By-pass Rd) Lot 1-3 Showground ROAD	Service Station	Regulation under CLM Act not required	-33.92580863	147.1978504
WEST WYALONG	Former Mobil Depot	104 Compton ROAD	Other Petroleum	Regulation under CLM Act not required	-33.93449194	147.2147948
WESTON	Illegal Dumping Site	Corner Kline Street & First STREET	Unclassified	Regulation under CLM Act not required	-32.81367986	151.4551507
WETHERILL PARK	Former Fuel Storage Depot	200-212 Cowpasture ROAD	Other Petroleum	Regulation under CLM Act not required	-33.84568871	150.8764012
WETHERILL PARK	Sims Wetherill Park	35-37 Frank STREET	Metal Industry	Regulation under CLM Act not required	-33.84056122	150.9086265

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
WETHERILL PARK	Shell Coles Express Service Station	565 Polding STREET	Service Station	Regulation under CLM Act not required	-33.8569731	150.8992804
WETHERILL PARK	Cleanaway (Formerly Nationwide Oil) Wetherill Park	6 Davis ROAD	Other Industry	Regulation under CLM Act not required	-33.83770038	150.9045197
WETHERILL PARK	BOC Sydney Operations Centre	428-440 Victoria STREET	Chemical Industry	Regulation being finalised	-33.84375988	150.8960027
WETHERILL PARK	Camide Former Landfill	Newton ROAD	Landfill	Regulation under CLM Act not required	-33.83898879	150.8963813
WETHERILL PARK	Fairfield Sustainable Resource Centre	Corner Hassall Street and Widemere ROAD	Other Industry	Under assessment	-33.804525	150.918154
WICKHAM	Caltex Terminal and "Building 33" on offsite adjacent land	156 Hannell Street and 33 Annie STREET	Other Petroleum	Contamination currently regulated under CLM Act	-32.9153413	151.7560062
WICKHAM	Former Warehouse	10 Dangar STREET	Unclassified	Regulation under CLM Act not required	-32.92383206	151.759761
WICKHAM	Former Factory	57 Annie STREET	Other Industry	Regulation under CLM Act not required	-32.91524827	151.7539893
WICKHAM	Railcorp Wickham	50 Railway STREET	Other Industry	Regulation under CLM Act not required	-32.9210433	151.7544687
WICKHAM	Fuchs Lubricants Wickham	2 Holland STREET	Other Industry	Contamination currently regulated under CLM Act	-32.9214709	151.7556928
WILBERFORCE	Former Drum Reconditioners	12-14 Box AVENUE	Other Industry	Contamination formerly regulated under the CLM Act	-33.5453884	150.8587934
WILBERFORCE	Former Solvent Recycling Site	13 Box AVENUE	Chemical Industry	Regulation under CLM Act not required	-33.54557427	150.8577006
WILEY PARK	Sydney Water Property	1B Hillcrest STREET	Other Industry	Regulation under CLM Act not required	-33.92391634	151.0676256
WILLIAMTOWN	Hunter Land Effluent Pond	38 Cabbage Tree ROAD	Other Industry	Regulation under CLM Act not required	-32.80750069	151.8310107
WILLOUGHBY	Shell Coles Express Service Station	616-626 Willoughby ROAD	Service Station	Regulation under CLM Act not required	-33.80593769	151.1988559
WILLOUGHBY	Caltex Service Station	157 Penhur STREET	Service Station	Regulation under CLM Act not required	-33.79793513	151.1981926

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
WILLOUGHBY	BP Willoughby Express Tower	498 Willoughby STREET	Service Station	Contamination currently regulated under POEO Act	-33.81022918	151.199315
WILLOUGHBY	Bicentennial Reserve, Flat Rock Gully, Willoughby Leisure Centre	Small STREET	Other Industry	Under assessment	-33.811402	151.204836
WILLOUGHBY EAST	Willoughby Bus Depot	Corner Ann Street and Stan STREET	Other Industry	Regulation under CLM Act not required	-33.7982569	151.2038993
WILTON	Condell Park Homestead	(Part Lot 17 DP 270536) Condell Park ROAD	Unclassified	Regulation under CLM Act not required	-34.21910141	150.6837962
WINDANG	Caltex Service Station	244-248 Windang ROAD	Service Station	Regulation under CLM Act not required	-34.5274434	150.8691161
WINDSOR	Former Caltex Service Station	46-52 Macquarie STREET	Service Station	Regulation under CLM Act not required	-33.60783315	150.8213428
WINDSOR	Former Caltex Windsor Depot and Service Station	48-50 Mileham STREET	Service Station	Regulation under CLM Act not required	-33.61538627	150.8157517
WINDSOR	Woolworths (former Caltex) Service Station	Cnr Macquarie Street & Baker STREET	Service Station	Regulation under CLM Act not required	-33.60569346	150.8232803
WINDSOR	Former Fire Station Windsor	19 Fitzgerald STREET	Other Industry	Under assessment	-33.6064873	150.8199089
WINGHAM	Former Caltex Service Station	1036-1038 Wingham ROAD	Service Station	Regulation under CLM Act not required	-31.86236594	152.3805752
WINGHAM	Bogas Service Station	Cnr Primrose Street and Isabella STREET	Service Station	Regulation under CLM Act not required	-31.86833656	152.3716346
WINMALEE	Prime Winmalee Service Station	281 Hawkesbury ROAD	Service Station	Regulation under CLM Act not required	-33.68223276	150.5997203
WIRLINGA	Former Liquid Waste Disposal Facility	704 Riverina ROAD	Unclassified	Regulation under CLM Act not required	-36.07103958	147.0193522
WOLLI CREEK	Former Ausgrid Substation 10061	13 Gertrude STREET	Other Industry	Regulation under CLM Act not required	-33.93364031	151.1543818
WOLLONGONG	Redevelopment site	33 - 39 Beatson STREET	Other Petroleum	Regulation under CLM Act not required	-34.43196083	150.8976661
WOLLONGONG	Caltex Service Station	9 Flinders STREET	Service Station	Regulation under CLM Act not required	-34.41505616	150.8932515

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
WOLLONGONG	Greenhouse Park	Springhill ROAD	Landfill	Contamination currently regulated under CLM Act	-34.44119949	150.8931764
WOLLONGONG	Former Wollongong Gasworks	120 and 122 Smith STREET	Gasworks	Regulation under CLM Act not required	-34.42030173	150.8906745
WOLLONGONG	Woolworths Service Station	425 Crown STREET	Service Station	Contamination currently regulated under CLM Act	-34.42637378	150.8799288
WOLLONGONG	Wollongong Harbour Central Spur	Off Endeavour DRIVE	Other Petroleum	Regulation under CLM Act not required	-34.42066879	150.906821
WOODBURN	Caltex Service Station	129 River STREET	Service Station	Regulation under CLM Act not required	-29.07206887	153.3409769
WOODBURN	Crown Reserve 88037 Woodburn	Pacific HIGHWAY	Landfill	Regulation under CLM Act not required	-29.06580577	153.3541886
WOOLGOOLGA	Caltex Woolgoolga Service Station	16 Bosworth ROAD	Service Station	Regulation under CLM Act not required	-30.12569561	153.1946006
WOOLGOOLGA	United Petroleum Service Station(1868 Solitary Islands Way)	56 Clarence STREET	Service Station	Contamination currently regulated under CLM Act	-30.11045544	153.1904609
WOOLLAHRA	Former Service Station	20 Wallis STREET	Service Station	Regulation under CLM Act not required	-33.8901965	151.2372752
WOOLLAHRA	Proposed Jewish Care Centre	7-21 Saber STREET	Unclassified	Regulation under CLM Act not required	-33.8904055	151.2480062
WOOLLAHRA	Caltex Woollahra Service Station	116 Old South Head ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.88959697	151.2553736
WOOLLOOMOOLOO	Former BP Service Station	2 Dowley STREET	Service Station	Contamination being managed via the planning process (EP&A Act)	-33.86940191	151.2218741
WOLOMIN	Woolomin Gold Rush Store	65 Nundle ROAD	Other Petroleum	Contamination formerly regulated under the CLM Act	-31.30415134	151.149729
WOOLOOWARE	Caltex Service Station	100 Woollooware ROAD	Service Station	Regulation under CLM Act not required	-34.05274635	151.1408413
WOOLOOWARE	Oyster Farm	Captain Cook DRIVE	Other Industry	Regulation under CLM Act not required	-34.03807914	151.1476055
WOONGARRAH	Former Warnervale Landfill	236-264 Hakone ROAD	Landfill	Regulation under CLM Act not required	-33.2376313	151.464362

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
WOOTTON	Former Chemical Spill Site	11859 Pacific HIGHWAY	Chemical Industry	Regulation under CLM Act not required	-32.28168548	152.3117819
WOY WOY	Mobil Former Woy Woy Service Station and adjacent land	177-181 Blackwall ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.49254403	151.3270829
WOY WOY	Barry Robertson Holden	231 Blackwall ROAD	Service Station	Regulation under CLM Act not required	-33.49621068	151.3285128
WOY WOY	Bogas Service Station	66 Memorial AVENUE	Service Station	Contamination currently regulated under CLM Act	-33.5069738	151.3315579
WOY WOY	Rogers Park	Dunban ROAD	Landfill	Regulation under CLM Act not required	-33.50009693	151.3181347
WOY WOY	Austin Butler Memorial Oval	Blackwall ROAD	Landfill	Regulation under CLM Act not required	-33.48672201	151.3283032
WOY WOY	James Browne Oval	Welcome STREET	Landfill	Regulation under CLM Act not required	-33.49720596	151.3242986
WYALONG	Caltex Service Station	50 Neeld (Newell Highway) STREET	Service Station	Regulation under CLM Act not required	-33.92665025	147.2446546
WYOMING	Caltex Service Station Wyoming	465 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.40945391	151.3499812
WYONG	Wyong Bayer/Kemcon	16 Lucca ROAD	Chemical Industry	Contamination formerly regulated under the CLM Act	-33.26192339	151.4429446
WYONG	Caltex Service Station	M1 Pacific (Northbound) MOTORWAY	Service Station	Regulation under CLM Act not required	-33.25641477	151.4024821
WYONG	Caltex Service Station	M1 Pacific (Southbound) MOTORWAY	Service Station	Regulation under CLM Act not required	-33.25330747	151.4053862
WYONG	IXOM Facility	8 Pavitt CRESCENT	Other Industry	Regulation under CLM Act not required	-33.26379108	151.4485113
YAGOONA	Galserv Galvanising Services	117-153 Rookwood ROAD	Metal Industry	Contamination currently regulated under POEO Act	-33.89493085	151.0388013
YAGOONA	BP Service Station Potts Hill (Yagoona)	155 Rookwood ROAD	Service Station	Regulation under CLM Act not required	-33.89330525	151.0390969
YAGOONA	7-Eleven (former Mobil) Service Station	519 Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-33.90760623	151.0207783

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
YAGOONA	Shell Coles Express Service Station	112 Rookwood ROAD	Service Station	Regulation under CLM Act not required	-33.89856213	151.0370458
YAGOONA	Sydney Water Corporation Potts Hill Complex	91 Brunker ROAD	Other Industry	Regulation under CLM Act not required	-33.89887589	151.0289165
YALLAH	Tallawarra Power Station site	Princes HIGHWAY	Unclassified	Ongoing maintenance required to manage residual contamination (CLM Act)	-34.52412143	150.8062159
YAMBA	Caltex Service Station	22 Treelands DRIVE	Service Station	Regulation under CLM Act not required	-29.42701701	153.3279204
YANCO	Former Service Station	14 Main AVENUE	Service Station	Contamination formerly regulated under the CLM Act	-34.60356494	146.4105016
YASS	Caltex Service Station	228 Comur STREET	Service Station	Regulation under CLM Act not required	-34.84440036	148.9140179
YASS	Caltex Service Station	1715 Yass Valley WAY	Service Station	Regulation under CLM Act not required	-34.80708856	148.8824228
YASS	Former Mobil Depot Yass and adjacent land	54-58 Laidlaw STREET	Service Station	Ongoing maintenance required to manage residual contamination (CLM Act)	-34.83252976	148.9068888
YASS	Former Gasworks	Dutton STREET	Gasworks	Contamination currently regulated under CLM Act	-34.83982614	148.9060029
YASS	Transgrid Depot Yass	Perry STREET	Unclassified	Under assessment	-34.86238341	148.9052809
YENNORA	Former Alcoa Australia Rolled Products Facility - Area 3	1 Kiora CRESCENT	Metal Industry	Regulation under CLM Act not required	-33.86568158	150.9649297
YENNORA	Spicer Axle Australia Manufacturing Facility	205-231 Fairfield ROAD	Other Industry	Regulation under CLM Act not required	-33.85655114	150.9579167
YENNORA	Former Caltex Service Station	137-141 Fairfield STREET	Service Station	Regulation under CLM Act not required	-33.86824768	150.9706137
YENNORA	Former Metal Plant	44 Larra STREET	Metal Industry	Contamination formerly regulated under the CLM Act	-33.86340576	150.9764349
YENNORA	TetraPak Site	6 Foray STREET	Other Industry	Contamination formerly regulated under the CLM Act	-33.8557183	150.9561605
YENNORA	19 Pine Road, Yennora	Pine ROAD	Metal Industry	Contamination currently regulated under CLM Act	-33.86713232	150.9621172

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
YETHOLME	Yetholme CCA Timber Treatment Plant	351 Eusdale ROAD	Other Industry	Contamination formerly regulated under the CLM Act	-33.45386256	149.8537787
YOUNG	Former Mobil Depot and Service Station Young	149 Lovell STREET	Service Station	Regulation under CLM Act not required	-34.31024587	148.290424
YOUNG	Former Shell Depot	166 Nasmyth STREET	Other Petroleum	Regulation under CLM Act not required	-34.31025192	148.2931008
YOUNG	Former battery recycler	45 Nasmyth STREET	Metal Industry	Contamination currently regulated under CLM Act	-34.31201571	148.306772
YOUNG	Adjacent to former battery recycler	47 Nasmyth STREET	Metal Industry	Contamination formerly regulated under the CLM Act	-34.31176273	148.3064765
YOUNG	Mobil Depot	186 Nasmyth STREET	Other Petroleum	Contamination currently regulated under CLM Act	-34.30954389	148.2908476
YOUNG	Former Caltex Depot	95 Lovell STREET	Service Station	Regulation under CLM Act not required	-34.31127119	148.2955092
ZETLAND	Energy Australia/ Ausgrid Zetland Depot	122 - 138 Joynton AVENUE	Other Industry	Regulation under CLM Act not required	-33.90883116	151.2101184
ZETLAND	Former Goodrich Control Systems, Zetland	84 - 92 Epsom ROAD	Other Industry	Regulation under CLM Act not required	-33.91025707	151.2078048

Background

A strategy to systematically prioritise, assess and respond to notifications under Section 60 of the *Contaminated Land Management Act 1997* (CLM Act) has been developed by the EPA. This strategy acknowledges the EPA's obligations to make information available to the public under *Government Information (Public Access) Act 2009*.

When a site is notified to the EPA, it may be accompanied by detailed site reports where the owner has been proactive in addressing the contamination and its source. However, often there is minimal information on the nature or extent of the contamination.

After receiving a report, the first step is to confirm that the report does not relate to a pollution incident. The Protection of the Environment Operations Act 1997 (POEO Act) deals with pollution incidents, waste stockpiling or dumping. The EPA also has an incident management process to manage significant incidents (<https://www.epa.nsw.gov.au/reporting-and-incidents/incident-management>).

In many cases, the information indicates the contamination is securely immobilised within the site, such as under a building or carpark, and is not currently causing any significant risks for the community or environment. Such sites may still need to be cleaned up, but this can be done in conjunction with any subsequent building or redevelopment of the land. These sites do not require intervention under the CLM Act, and are dealt with through the planning and development consent process. In these cases, the EPA informs the local council or other planning authority, so that the information can be recorded and considered at the appropriate time (<https://www.epa.nsw.gov.au/your-environment/contaminated-land/managing-contaminated-land/role-of-planning-authorities>).

Where indications are that the contamination could cause actual harm to the environment or an unacceptable offsite impact (i.e. the land is 'significantly contaminated'), the EPA would apply the regulatory provisions of the CLM Act to have the responsible polluter and/or landowner investigate and remediate the site. If the reported contamination could present an immediate or long-term threat to human health NSW Health will be consulted. SafeWork NSW and Water NSW can also be consulted if there appear to be occupational health and safety risks or an impact on groundwater quality.

As such, the sites notified to the EPA and presented in the list of contaminated sites notified to the EPA are at various stages of the assessment and remediation process. Understanding the nature of the underlying contamination, its implications and implementing a remediation program where required, can take a considerable period of time. The list provides an indication, in relation to each nominated site, as to the management status of that particular site. Further detailed information may be available from the EPA or the person who notified the site.

The following questions and answers may assist those interested in this issue.

Frequently asked questions

Why does my land appear on the list of notified sites?

Your land may appear on the list because:

- the site owner and/or the polluter has notified the EPA under section 60 of the CLM Act
- the EPA has been notified via other means and is satisfied that the site is or was contaminated.

If a site is on the list, it does not necessarily mean the contamination is significant enough to regulate under the CLM Act.

Does the list contain all contaminated sites in NSW?

No. The list only contains contaminated sites that EPA is aware of. If a site is not on the list, it does not necessarily mean the site is not contaminated.

The EPA relies on responsible parties and the public to notify contaminated sites.

How are notified contaminated sites managed by the EPA?

There are different ways the EPA can manage notified contaminated sites. Options include:

- regulation under the CLM Act, POEO Act, or both
- notifying the relevant planning authority for management under the planning and development process
- managing the site under the Protection of the Environment Operation (Underground Petroleum Storage Systems) Regulation 2014.

There are specific cases where contamination is managed under a tailored program operated by another agency (for example, the Resources & Geoscience's Legacy Mines Program).

What should I do if I am a potential buyer of a site that appears on the list?

You should seek advice from the seller to understand the contamination issue. You may need to seek independent contamination or legal advice.

The information provided in the list is indicative only and a starting point for your own assessment. Land contamination from past site uses is common, mainly in urban environments. If the site is properly remediated or managed, it may not affect the intended future use of the site.

Who can I contact if I need more information about a site?

You can contact the Environment Line at any time by calling 131 555 or by emailing info@environment.nsw.gov.au.

List of NSW Contaminated Sites Notified to the EPA

Disclaimer

The EPA has taken all reasonable care to ensure that the information in the list of contaminated sites notified to the EPA (the list) is complete and correct. The EPA does not, however, warrant or represent that the list is free from errors or omissions or that it is exhaustive.

The EPA may, without notice, change any or all of the information in the list at any time.

You should obtain independent advice before you make any decision based on the information in the list.

The list is made available on the understanding that the EPA, its servants and agents, to the extent permitted by law, accept no responsibility for any damage, cost, loss or expense incurred by you as a result of:

- 1. any information in the list; or
- 2. any error, omission or misrepresentation in the list; or
- 3. any malfunction or failure to function of the list;
- 4. without limiting (2) or (3) above, any delay, failure or error in recording, displaying or updating information.

Site Status	Explanation
Under assessment	The contamination is being assessed by the EPA to determine whether regulation is required. The EPA may require further information to complete the assessment. For example, the completion of management actions regulated under the planning process or <i>Protection of the Environment Operations Act 1997</i> .
Under Preliminary Investigation Order	The EPA has issued a Preliminary Investigation Order under s10 of the <i>Contaminated Land Management Act 1997</i> , to obtain additional information needed to complete the assessment.
Regulation under CLM Act not required	The EPA has completed an assessment of the contamination and decided that regulation under the <i>Contaminated Land Management Act 1997</i> is not required.

Regulation being finalised	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the <i>Contaminated Land Management Act 1997</i> . A regulatory approach is being finalised.
Contamination currently regulated under CLM Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). Management of the contamination is regulated by the EPA under the CLM Act. Regulatory notices are available on the EPA's Contaminated Land Public Record.
Contamination currently regulated under POEO Act	Contamination is currently regulated under the Protection of the Environment Operations Act 1997 (POEO Act). The EPA as the appropriate regulatory authority reasonably suspects that a pollution incident is occurring/ has occurred and that it requires regulation under the POEO Act. The EPA may use environment protection notices, such as clean up notices, to require clean up action to be taken. Such regulatory notices are available on the POEO public register.
Contamination being managed via the planning process (EP&A Act)	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. The contamination of this site is managed by the consent authority under the <i>Environmental Planning and Assessment Act 1979</i> (EP&A Act) planning approval process, with EPA involvement as necessary to ensure significant contamination is adequately addressed. The consent authority is typically a local council or the Department of Planning and Environment.
Contamination formerly regulated under the CLM Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation under the <i>Contaminated Land Management Act 1997</i> (CLM Act). The contamination was addressed under the CLM Act.
Contamination formerly regulated under the POEO Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed under the <i>Protection of the Environment Operations Act 1997</i> (POEO Act).

Contamination was addressed via the planning process (EP&A Act)	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed by the appropriate consent authority via the planning process under the <i>Environmental Planning and Assessment Act 1979</i> (EP&A Act).
Ongoing maintenance required to manage residual contamination (CLM Act)	The EPA has determined that ongoing maintenance, under the Contaminated Land Management Act 1997 (CLM Act), is required to manage the residual contamination. Regulatory notices under the CLM Act are available on the EPA's Contaminated Land Public Record.

The NSW Government PFAS Investigation Program

View a map of the sites in NSW that may be contaminated with PFAS, learn how to reduce your exposure to these dangerous chemicals, and read about our investigation of the issue.

The EPA is leading an investigation program to assess the legacy of PFAS use across NSW. With the assistance of the NSW PFAS Technical Advisory Group, which includes NSW Health, Department of Primary Industries and the Office of Environment and Heritage, we provide impacted residents with tailored, precautionary dietary advice to help them reduce any exposure to PFAS.

Current investigations are focused on sites where it is likely that large quantities of PFAS have been used. The EPA is currently investigating PFAS at these sites:

Map view

List view

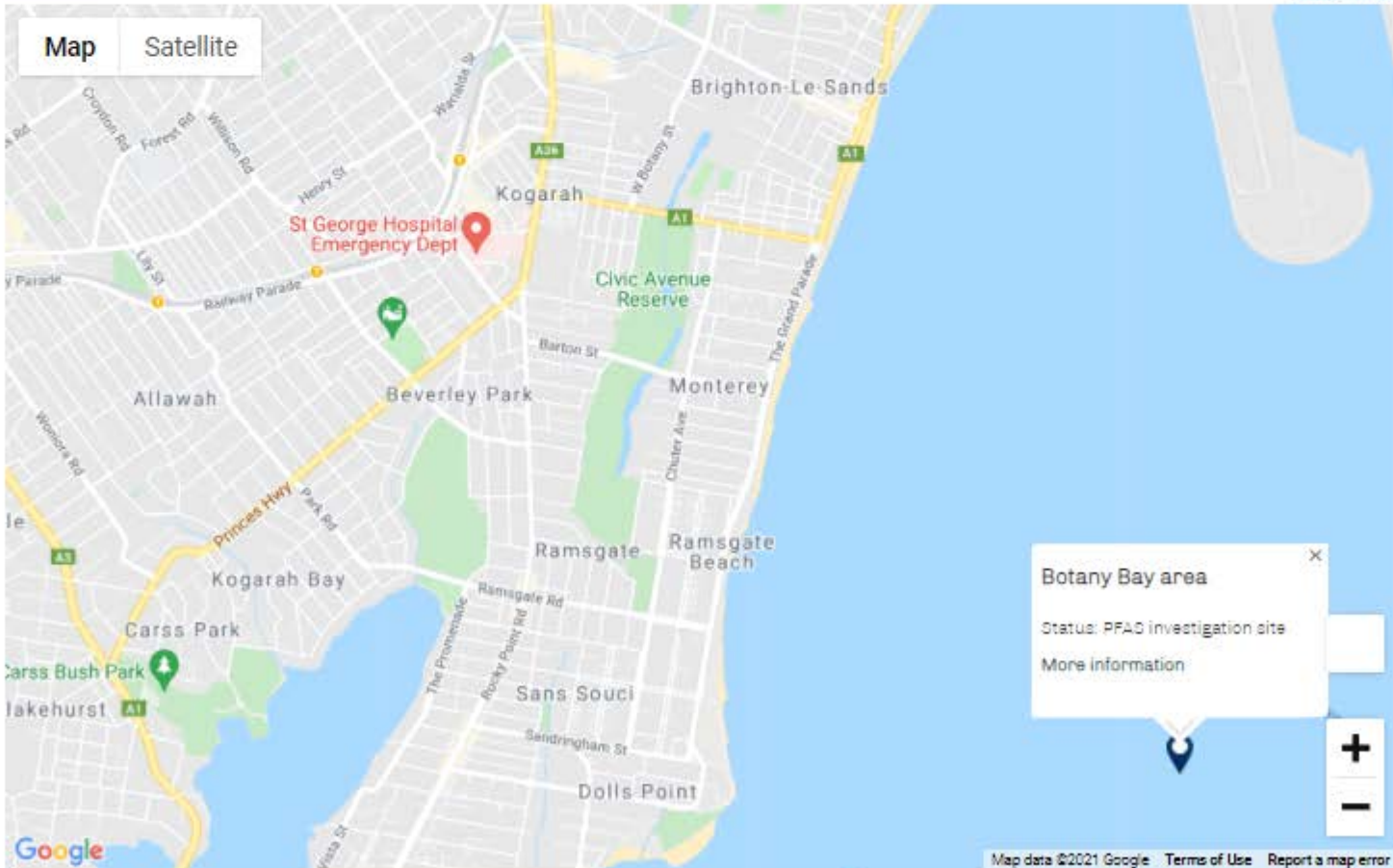
No filter set

Showing 1 of 49 sites

[Reset map](#)

Map

Satellite



Botany Bay area

Status: PFAS investigation site

[More information](#)

Map data ©2021 Google

[Terms of Use](#)

[Report a map error](#)

☒ PFAS investigation site

☐ Multiple sites

Appendix F Heritage Database Searches

Search Results

5 results found.

Kogarah Community Aid and Information Centre 90 Railway Pde	Kogarah, NSW, Australia	(Registered) Register of the National Estate (Non-statutory archive)
Kogarah Fire Station Gray St	Kogarah, NSW, Australia	(Indicative Place) Register of the National Estate (Non-statutory archive)
Kogarah School of Arts former Bowns Rd	Kogarah, NSW, Australia	(Registered) Register of the National Estate (Non-statutory archive)
Scarborough Park President Av	Monterey, NSW, Australia	(Rejected Place) Register of the National Estate (Non-statutory archive)
Sunbeam Avenue Urban Conservation Area	Kogarah, NSW, Australia	(Indicative Place) Register of the National Estate (Non-statutory archive)

Report Produced: Tue Jun 1 09:51:37 2021

Start your search



VIEW RESULTS

Advanced search ▾

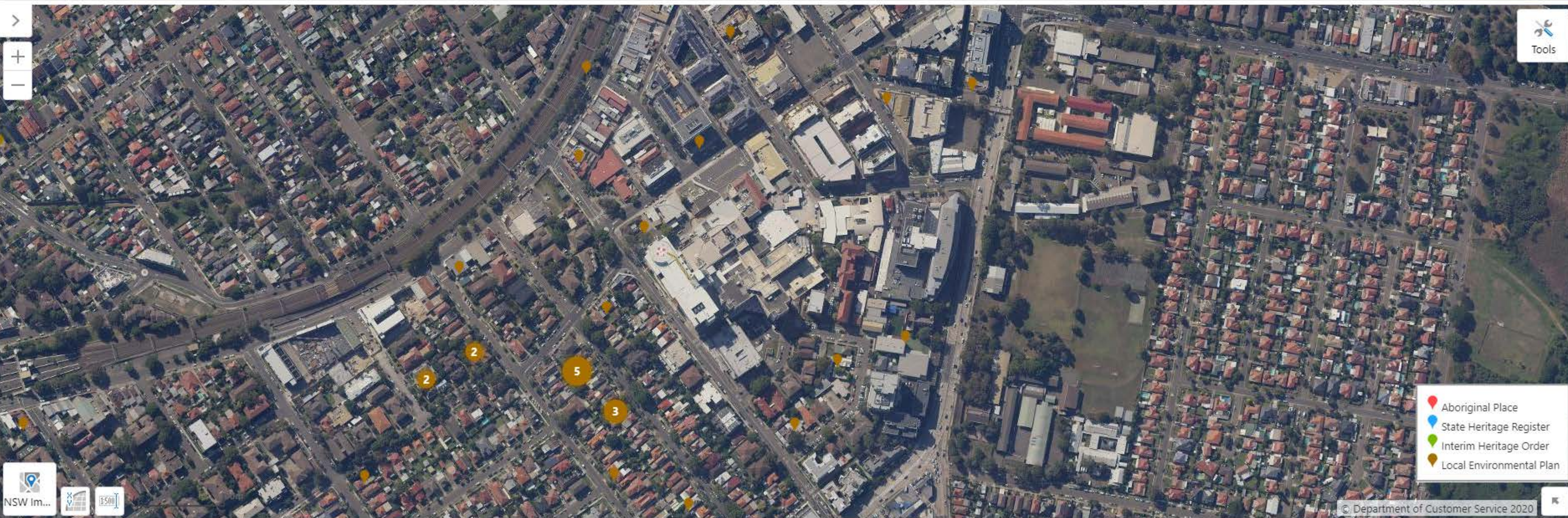
View NSW Heritage:

Map

A-Z 

Statutory list

CLEAR SPATIAL RESULTS



Appendix G NSW Fair Trading Searches

Loose-fill asbestos insulation register

Listen

(https://app-oc.readspeaker.com/cgi-bin/rsent?customerid=7371&lang=en_au&readid=page-content&url=https://www.fairtrading.nsw.gov.au/loose-fill-asbestos-insulation-register)

Look up the premises address

Please enter exact address information (including street type) of the address you wish to search (Note, the search fields are not case sensitive).

If a match is found, the premises has been identified as containing loose-fill asbestos insulation.

Results will only appear if an exact match of an address is found.

(The fields marked with * are required.)

No Match Found - A search match was not found in the Loose-fill Asbestos Insulation Register

Address searched: 16 Kensngton Street Kogarah 2217

This information is correct at the time of the search

Unit	<input type="text"/>
Street number*	<input type="text"/>
Street name*	<input type="text"/>
Street type*	<div>Alley</div> <div>▼</div>
Suburb*	<input type="text"/>
Postcode	<input type="text"/>

Submit

Loose-fill asbestos insulation register

Listen

(https://app-oc.readspeaker.com/cgi-bin/rsent?customerid=7371&lang=en_au&readid=page-content&url=https://www.fairtrading.nsw.gov.au/loose-fill-asbestos-insulation-register)

Look up the premises address

Please enter exact address information (including street type) of the address you wish to search (Note, the search fields are not case sensitive).

If a match is found, the premises has been identified as containing loose-fill asbestos insulation.

Results will only appear if an exact match of an address is found.

(The fields marked with * are required.)

No Match Found - A search match was not found in the Loose-fill Asbestos Insulation Register

Address searched: 14 Kensington Street Kogarah 2217

This information is correct at the time of the search

Unit

Street number*

Street name*

Street type*

Alley

▼

Suburb*

Postcode

Submit

Loose-fill asbestos insulation register

Listen

(https://app-oc.readspeaker.com/cgi-bin/rsent?customerid=7371&lang=en_au&readid=page-content&url=https://www.fairtrading.nsw.gov.au/loose-fill-asbestos-insulation-register)

Look up the premises address

Please enter exact address information (including street type) of the address you wish to search (Note, the search fields are not case sensitive).

If a match is found, the premises has been identified as containing loose-fill asbestos insulation.

Results will only appear if an exact match of an address is found.

(The fields marked with * are required.)

No Match Found - A search match was not found in the Loose-fill Asbestos Insulation Register

Address searched: 18 Kesington Street Kogarah 2217

This information is correct at the time of the search

Unit	<input type="text"/>
Street number*	<input type="text"/>
Street name*	<input type="text"/>
Street type*	<div>Alley</div> <div>▼</div>
Suburb*	<input type="text"/>
Postcode	<input type="text"/>
<div>Submit</div>	

Appendix H Naturally Occurring Asbestos Database Searches

Legend

About

Layers

Naturally Occuring Asbestos in NSW

POINT OCCURRENCE DATA

Mineral Occurences - Asbestos Sites

VLGE

LGE

MED

OCC

SML

BROKEN HILL - GEOLOGICAL UNITS WITH ASBESTOS POTENTIAL

Retrograde Ultrabasic Dykes with MEDIUM asbestos potential

Dykes with HIGH asbestos potential

Geological Units with HIGH asbestos potential

STATEWIDE - GEOLOGICAL UNITS WITH ASBESTOS POTENTIAL

Geological Units with HIGH asbestos potential

Geological Units with MEDIUM asbestos potential

Geological Units with LOW asbestos potential

+

-

NATURALLY OCCURRING ASBESTOS IN NSW

NEW SOUTH WALES

Goobang National Park

Parkes

Young

Wagga Wagga

Bago

Canberra

Australian Capital Territory

1915 m

Shoalhaven River

Mongla National

Goulburn

Morton National Park

Nowra

Goulburn River National Park

Putty State Forest

Wollumbi National Park

Newnes State Forest

Katoomba

Blue Mountains National Park

Kanangra-Boyd National Park

1232 m

Nattai National Park

Sydney

Wollongong

Dubbo

Goonoo State Forest

Castlereagh River

Cuogogoo River

Macintyre River

Macdonald River

Nepean River

Abercrombie River

Lachlan River

Bland Creek

Muswellbrook

Barrington Tops National Park

1595 m

1592 m

679 m

Myall Lake

Myall Lakes National Parks

Taree

Manang River

Esri, H

https://trade.maps.arcgis.com/apps/PublicInformation/index.html?appid=87434b6ec7dd4aba8cb664d8e646fb06

1/1

Appendix I Section 10.7 Planning Certificates

PLANNING CERTIFICATE ISSUED UNDER SECTION 10.7(2) and 10.7(5)
ENVIRONMENTAL PLANNING AND ASSESSMENT ACT, 1979

Our Reference: **PL2021/2144**
Your Reference:
Date of Issue: **01/06/2021**

Ms Jbs&G
Level 1, 50 Margaret Street
SYDNEY NSW 2000

Property Number:	41871
Property Address:	18 Kensington Street KOGARAH NSW 2217
Legal Description:	Lot 2 DP 1130879

This planning certificate should be read in conjunction with the relevant Local Environmental Plan listed under Names of Relevant Planning Instruments and DCPs. This is available on the NSW legislation website at www.legislation.nsw.gov.au

The land to which this certificate relates, being the lot or one of the lots described in the corresponding application, is shown in Council's records as being situated at the street address described on page 1 of this certificate.

It is the applicant's responsibility to confirm that the legal description of the lot to which the application relates is accurate and current. Council does not check the accuracy or currency of the information; nor does Council have the copyright to this information.

The legal description of land is obtained from NSW Land and Property Information. Applicants must verify all property and lot information with NSW Land and Property Information.

The information contained in this certificate relates only to the lot described on page 1 of this certificate.

Where the street address comprises more than one lot in one or more deposited plans or strata plans, separate planning certificates can be obtained upon application for the other lots. Those certificates may contain different information than is contained in this certificate.

This certificate is provided pursuant to Section 10.7(2) and 10.7(5) of the Act. At the date of this certificate, the subject land may be affected by the following matters.

1. Names of relevant planning instruments and DCPs

(1) The name of each environmental planning instrument that applies to the carrying out of development on the land:

The following environmental planning instruments apply to the carrying out of development on the land:

Local Environmental Plans

Kogarah Local Environmental Plan 2012

State Environmental Planning Policies

The following State Environmental Planning Policies apply:

No. 19 - Bushland in Urban Areas
No. 21 - Caravan Parks
No. 30 - Intensive Agriculture
No. 33 - Hazardous and Offensive Development
No. 50 - Canal Estate Development
No. 55 - Remediation of Land
No. 62 - Sustainable Aquaculture
No. 64 - Advertising and Signage
No. 65 - Design Quality of Residential Apartment Development
No. 70 - Affordable Housing (Revised Schemes)
SEPP (Housing for Seniors or People with a Disability) 2004
SEPP (Building Sustainability Index: BASIX) 2004
SEPP (State Significant Precincts) 2005
SEPP (Mining, Petroleum Production and Extraction Industries) 2007
SEPP (Miscellaneous Consent Provisions) 2007
SEPP (Infrastructure) 2007
SEPP (Exempt and Complying Development Codes) 2008
SEPP (Affordable Rental Housing) 2009
SEPP (State and Regional Development) 2011
SEPP (Educational Establishments and Child Care Facilities) 2017
SEPP (Vegetation in Non-Rural Areas) 2017

(2) The name of each proposed environmental planning instrument that will apply to the carrying out of development on the land and that is or has been the subject of community consultation or on public exhibition under the Act (unless the Secretary has notified the council that the making of the proposed instrument has been deferred indefinitely or has not been approved):

The following proposed environmental planning instruments that have been the subject of community consultation or on public exhibition under the Act, apply to the carrying out of development on the land:

On 27 October 2017, the NSW Department of Planning and Environment placed the proposal to repeal State Environmental Planning Policy (Miscellaneous Consent Provisions) 2007 on community consultation.

On 31 October 2017, the NSW Department of Planning and Environment placed the draft SEPP (Environment) on community consultation.

On 20 June 2018, the NSW Department of Planning and Environment placed an amendment to the SEPP (Exempt and Complying Development Codes) 2008 on community consultation.

On 5 October 2018, the NSW Department of Planning and Environment placed an amendment to SEPP (Exempt and Complying Development Codes) 2008 and Standard Instrument Order 2006 in order to provide for short-term rental accommodation in NSW.

On 30 November 2018, the NSW Department of Planning and Environment placed an amendment to SEPP 70 – Affordable Housing (Revised Schemes) on community consultation.

On 14 January 2019, the NSW Department of Planning and Environment placed on community consultation proposed amendments to a number of SEPPs that will replace the existing references to Planning for Bush Fire Protection (PBP) or associated publications with a reference to the new edition of PBP or the relevant publication. Additional amendments are also proposed in some cases to ensure that the relevant provisions are consistent with the new edition of PBP. The SEPPs to be amended are:

- State Environmental Planning Policy (Exempt and Complying Development Codes) 2008
- State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004
- State Environmental Planning Policy (Affordable Rental Housing) 2009
- State Environmental Planning Policy (Infrastructure) 2007
- State Environmental Planning Policy (Kurnell Peninsula) 1989
- State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017
- Greater Metropolitan Regional Environmental Plan No 2 – Georges River Catchment

The Planning Proposal for the Georges River Local Environmental Plan 2020 was placed on community consultation from 1 April 2020 to 31 May 2020 (inclusive). The Planning Proposal seeks to harmonise the existing Hurstville Local Environmental Plan 1994, Hurstville Local Environmental Plan 2012 and Kogarah Local Environmental Plan 2012 through the preparation of a new principal Local Environmental Plan for the Georges River LGA. The proposed Georges River Local Environmental Plan 2020 comprises of amendments to the following planning controls:

- Aims of the Plan
- Land use zones
- Zone objectives
- Land use tables
- Temporary use of land
- Exempt and complying development
- Development standards
- Land acquisition
- Miscellaneous provisions
- Miscellaneous permissible uses
- Additional local provisions
- Schedules:
 - o Schedule 1 Additional permitted uses
 - o Schedule 2 Exempt development
 - o Schedule 3 Complying development
 - o Schedule 4 Classification and reclassification of public land
 - o Schedule 5 Environmental heritage

The outcomes of community consultation and the amendments proposed to finalise the Planning Proposal were considered by the Georges River Local Planning Panel, as the delegate of the Georges River Council, at its meeting held on 25 and 26 June 2020. The Panel resolved to endorse a number of variations to the exhibited Planning Proposal and to forward the amended Planning Proposal to the Department of Planning, Industry and Environment for gazettal in accordance with Section 3.36 of the Environmental Planning and Assessment Act 1979. The resolution of the Panel is attached as **Appendix 1** to this certificate. It is also available on the Local Planning Panel webpage on Council's website: [https://www.georgesriver.nsw.gov.au/Development/Development-Applications/Local-Planning-Panel-\(LPP\)](https://www.georgesriver.nsw.gov.au/Development/Development-Applications/Local-Planning-Panel-(LPP))

The Planning Proposal (known as LEP21) was placed on community consultation from 20 January to 17 February 2021. Draft LEP21 proposes to:

- For manor house and multi dwelling housing (terraces) developments – require a minimum lot size of 800sqm for development applications and complying developments;
- For manor house developments – require a minimum lot width of 18m for development applications only;
- For multi dwelling housing (terraces) – require a minimum lot width of 21m for development applications only;
- Rezone land in the Narwee housing investigation area from R2 Low Density Residential to R3 Medium Density Residential and R4 High Density Residential to create capacity for additional housing;

- Ensure sensitive use developments as defined under the Hazardous Industry Planning Advisory Paper No.4 are restricted on Nos. 1, 3, 5, 7, 9, 11 and 13 Berrille Road, Narwee;
- Rectify existing mapping inconsistencies at 33 Dora Street, Hurstville and 199 Rocky Point Road, Ramsgate; and
- Increase the maximum building height in Hurstville – in the Hillcrest Avenue housing investigation area (being Nos. 3 to 11 Hillcrest Avenue Hurstville) from 12m to 13m, to enable residential flat building developments of four storeys.

The Planning Proposal will amend the Hurstville Local Environmental Plan 2012 and the Kogarah Local Environmental Plan 2012 (or, if gazetted, Georges River Local Environmental Plan 2020).

On 29 July 2020, the Department of Planning, Industry and Environment placed on public exhibition an Explanation of Intended Effect (EIE) for a new Housing Diversity SEPP. The new SEPP proposes to consolidate three existing, housing-related SEPPs (listed below).

The SEPPs to be amended are:

- State Environmental Planning Policy (Affordable Rental Housing) 2009
- State Environmental Planning Policy (Housing for Seniors and People with a Disability) 2004 (Seniors SEPP)
- State Environmental Planning Policy No 70—Affordable Housing (Revised Schemes) (SEPP 70)

The SEPP also proposes to amend the Standard Instrument – Principal Local Environmental Plan (Standard Instrument LEP) by introducing new definitions for build-to-rent housing, student housing and co-living developments.

The EIE was on exhibition from 29 July 2020 - 9 September 2020.

On 26 February 2021, the Department of Planning, Industry and Environment (DPIE) placed on public exhibition an Explanation of Intended Effect (EIE) for the proposed Design and Place State Environmental Policy (SEPP). The new SEPP proposes to repeal and replace the following existing SEPPs:

- State Environmental Planning Policy No. 65 (Design Quality of Residential Apartment Development) 2002; and
- State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004.

The SEPP also proposes to make the following changes to design policies and guides:

- Revise the Apartment Design Guide (ADG);
- Introduce a new Urban Design Guide (UDG); and
- Prepare a new Design Review Guide.

The EIE was on exhibition from 26 February 2021 - 28 April 2021.

On 31 March 2021, the Department of Planning, Industry and Environment (DPIE) placed on public exhibition an Explanation of Intended Effect (EIE) for the review of clause 4.6 of the Standard Instrument LEP (Exceptions to development standards) to improve the way this clause operates and provide certainty to councils and industry.

The EIE also seeks feedback on proposed measures to increase transparency, accountability and probity by strengthening council reporting requirements on variation decisions, in line with ICAC recommendations.

The Environmental Planning and Assessment Regulation 2000 will be amended to include the current requirements to fulfill procedural and reporting requirements when development standards are varied, including Council's publishing reasons for granting or refusing a variation request on the NSW Planning Portal.

The EIE was on exhibition from 31 March - 12 May 2021.

On 1 April 2021, the Department of Planning, Industry and Environment (DPIE) placed on public exhibition an Explanation of Intended Effect (EIE) for proposed reforms to the Codes SEPP through Building Business Back Better. The reforms propose the following four key areas:

1. Enabling land use and business agility for retail, commercial and industrial development reducing barriers in utilising existing space.
2. Optimising opportunities for industrial and commercial development.
3. Neighbourhood centre activation, strengthening our increasingly important local networks.
4. Streamlining the delivery of data centres to support networks.

The EIE was on exhibition from 1 April 2021 - 9 May 2021.

(3) The name of each development control plan that applies to the carrying out of development on the land:

The following development control plans apply to the carrying out of development on the land:

Kogarah Development Control Plan 2013.

NOTE: Council has prepared a new Development Control Plan to replace the Kogarah Development Control Plan 2013 and the Hurstville Development Control Plan No. 1. The draft Georges River DCP 2020 was on public exhibition from 21 October to 27 November 2020.

(4) In this clause, proposed environmental planning instrument includes a planning proposal for a LEP or a draft environmental planning instrument

2. Zoning and land use under relevant LEPs

For each environmental planning instrument or proposed instrument referred to in clause 1 (other than a SEPP or proposed SEPP) that includes the land in any zone (however described).

(a) the identity of the zone, whether by reference to a name (such as "Residential Zone" or "Heritage Area") or by reference to a number (such as "Zone No 2 (a)"),

(b) the purposes for which the instrument provides that development may be carried out within the zone without the need for development consent,

(c) the purposes for which the instrument provides that development may not be carried out within the zone except with development consent,

(d) the purposes for which the instrument provides that development is prohibited within the zone,

Zone SP2 Infrastructure under Kogarah Local Environmental Plan 2012

2 Permitted without consent

Nil

3 Permitted with consent

Aquaculture; Car parks; Centre-based child care facilities; Commercial premises; Community facilities; Depots; Environmental facilities; Environmental protection works; Markets; Places of public worship; Public administration buildings; Recreation areas; Respite day care centres; Roads; Signage; The purpose shown on the Land Zoning Map, including any development that is ordinarily incidental or ancillary to development for that purpose

4 Prohibited

Any development not specified in item 2 or 3

Zone and land uses under the draft Georges River LEP 2020

Zone SP2 Infrastructure

2 Permitted without consent

Nil.

3 Permitted with consent

Aquaculture; Car parks; Community facilities; Markets; Public administration buildings; Recreation areas; Respite day care centres; Roads; Signage; The purpose shown on the Land Zoning Map, including any development that is ordinarily incidental or ancillary to development for that purpose.

4 Prohibited

Any other development not specified in item 2 or 3.

(e) whether any development standards applying to the land fix minimum land dimensions for the erection of a dwelling-house on the land and, if so, the minimum land dimensions so fixed,

There are no development standards applying to the land which fix minimum land dimensions for the erection of a dwelling house under the Kogarah Local Environmental Plan 2012.

Draft Georges River Local Environmental Plan 2020

There are no development standards applying to the land which fix minimum land dimensions for the erection of a dwelling house under the Draft Georges River Local Environmental Plan 2020.

(f) whether the land includes or comprises critical habitat,

The land does not include or comprise critical habitat under any environmental planning instrument.

Draft Georges River Local Environmental Plan 2020

The land does not include or comprise critical habitat under the draft Georges River Local Environmental Plan 2020.

(g) whether the land is in a conservation area (however described),

The land is not located within a conservation area under the provisions of Kogarah Local Environmental Plan 2012.

Draft Georges River Local Environmental Plan 2020

The land is not located within a conservation area under the provisions of the Draft Georges River Local Environmental Plan 2020.

(h) whether an item of environmental heritage (however described) is situated on the land.

The land does not contain a heritage item under the provisions of *Kogarah Local Environmental Plan 2012*.

Draft Georges River Local Environmental Plan 2020

The land does not contain a heritage item under the provisions of Draft Georges River Local Environmental Plan 2020.

2A Zoning and land use under State Environmental Planning Policy (Sydney Region Growth Centres) 2006

To the extent that the land is within any zone (however described) under:

(a) Part 3 of the State Environmental Planning Policy (Sydney Region Growth Centres) 2006 (the 2006 SEPP), or

(b) a Precinct Plan (within the meaning of the 2006 SEPP), or

(c) a proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act, the particulars referred to in clause 2(a)-(h) in relation to that land (with a reference to “the instrument” in any of those paragraphs being read as a reference to Part 3 of the 2006 SEPP, or the Precinct Plan or proposed Precinct Plan, as the case requires).

The State Environmental Planning Policy (Sydney Region Growth Centres) 2006 does not identify land within the Georges River Local Government Area as a growth centre and therefore the policy does not apply.

3. Complying Development

(1) The extent to which the land is land on which complying development may be carried out under each of the codes for complying development because of the provisions of clauses 1.17A (1)(c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

(2) The extent to which complying development may not be carried out on that land because of the provisions of clauses 1.17A (1)(c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of that Policy and the reasons why it may not be carried out under those clauses.

(3) If the Council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on that land, a statement that a restriction applies to the land, but it may not apply to all of the land, and that council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land.

Housing Code

Complying development under the Housing Code may not be carried out on the land. The land is either wholly or partially affected by specific land exemptions:

- The land is reserved for a public purpose in an environmental planning instrument. Please consult the Land Zoning Map and Land Reservation Acquisition Map of the Hurstville Local Environmental Plan 2012 or the Land Zoning Map and Land Reservation Acquisition Map of the Kogarah Local Environmental Plan 2012 to confirm the extent to which complying development may or may not be carried out on the land.

Note: The erection of a new dwelling house or an addition to a dwelling house on land in the 20-25 ANEF contours is complying development for this Policy, if the development is constructed in accordance with AS 2021—2000, Acoustics—Aircraft noise intrusion—Building siting and construction.

Please check ANEF contour the land is located within.

Housing Code under Draft Georges River Local Environmental Plan 2020

Complying development under the Housing Code may be carried out on the land.

Note: The erection of a new dwelling house or an addition to a dwelling house on land in the 20-25 ANEF contours is complying development for this Policy, if the development is constructed in accordance with AS 2021—2000, Acoustics—Aircraft noise intrusion—Building siting and construction.

Please check ANEF contour the land is located within.

Rural Housing Code

Complying development under the Rural Housing Code does not apply as the land is not zoned RU1 Primary Production, RU2 Rural Landscape, RU3 Forestry, RU4 Primary Production Small Lots, RU6 Transition and R5 Large Lot Residential.

Low Rise Housing Diversity Code

Complying development under the Low Rise Housing Diversity Code may not be carried out on the land. The land is either wholly or partially affected by specific land exemptions:

- The land is reserved for a public purpose in an environmental planning instrument. Please consult the Land Zoning Map and Land Reservation Acquisition Map of the Hurstville Local Environmental Plan 2012 or the Land Zoning Map and Land Reservation Acquisition Map of the Kogarah Local Environmental Plan 2012 to confirm the extent to which complying development may or may not be carried out on the land.

Note: The erection of a new dwelling house or an addition to a dwelling house on land in the 20-25 ANEF contours is complying development for this Policy, if the development is constructed in accordance with AS 2021—2000, Acoustics—Aircraft noise intrusion—Building siting and construction.

Please check ANEF contour the land is located within.

Low Rise Housing Diversity Code under Draft Georges River Local Environmental Plan 2020

Complying development under the Low Rise Housing Diversity Code may be carried out on the land.

Note: The erection of a new dwelling house or an addition to a dwelling house on land in the 20-25 ANEF contours is complying development for this Policy, if the development is constructed in accordance with AS 2021—2000, Acoustics—Aircraft noise intrusion—Building siting and construction.

Please check ANEF contour the land is located within.

Inland Code

Complying development under the Inland Code does not apply to Georges River Council

Local Government Area.

Greenfield Housing Code

Complying development under the Greenfield Housing Code does not apply to Georges River Council Local Government Area.

Housing Alterations Code

Complying development under the Housing Alterations Code may be carried out on the land.

Note: The erection of a new dwelling house or an addition to a dwelling house on land in the 20-25 ANEF contours is complying development for this Policy, if the development is constructed in accordance with AS 2021—2000, Acoustics—Aircraft noise intrusion—Building siting and construction.

Please check ANEF contour the land is located within.

Housing Alterations Code under Draft Georges River Local Environmental Plan 2020

Complying development under the Housing Alterations Code may be carried out on the land.

Note: The erection of a new dwelling house or an addition to a dwelling house on land in the 20-25 ANEF contours is complying development for this Policy, if the development is constructed in accordance with AS 2021—2000, Acoustics—Aircraft noise intrusion—Building siting and construction.

Please check the ANEF contour the land is located within.

General Development Code

Complying development under the General Development Code may be carried out on the land.

Note: The erection of a new dwelling house or an addition to a dwelling house on land in the 20-25 ANEF contours is complying development for this Policy, if the development is constructed in accordance with AS 2021—2000, Acoustics—Aircraft noise intrusion—Building siting and construction.

Please check the ANEF contour the land is located within.

General Development Code under Draft Georges River Local Environmental Plan 2020

Complying development under the General Development Code may be carried out on the land.

Note: The erection of a new dwelling house or an addition to a dwelling house on land in the 20-25 ANEF contours is complying development for this Policy, if the development is

constructed in accordance with AS 2021—2000, Acoustics—Aircraft noise intrusion—Building siting and construction.

Please check the ANEF contour the land is located within.

Commercial and Industrial Alterations Code

Complying development under the Commercial and Industrial Alterations Code may be carried out on the land.

Commercial and Industrial Alterations Code under Draft Georges River Local Environmental Plan 2020

Complying development under the Commercial and Industrial Alterations Code may be carried out on the land.

Commercial and Industrial (New Buildings and Additions) Code

Complying development under the Commercial and Industrial (New Buildings and Alterations) Code may not be carried out on the land. The land is either wholly or partially affected by specific land exemptions:

- The land is reserved for a public purpose in an environmental planning instrument. Please consult the Land Zoning Map and Land Reservation Acquisition Map of the Hurstville Local Environmental Plan 2012 or the Land Zoning Map and Land Reservation Acquisition Map of the Kogarah Local Environmental Plan 2012 to confirm the extent to which complying development may or may not be carried out on the land.

Commercial and Industrial (New Buildings and Additions) Code under Draft Georges River Local Environmental Plan 2020

Complying development under the Commercial and Industrial (New Buildings and Additions) Code may be carried out on the land.

Container Recycling Facilities Code

Complying development under the Container Recycling Facilities Code may be carried out on the land.

Container Recycling Facilities Code under Draft Georges River Local Environmental Plan 2020

Complying development under the Container Recycling Facilities Code may be carried out on the land.

Subdivision Code

Complying development under the Subdivision Code may be carried out on the land.

Subdivision Code under Draft Georges River Local Environmental Plan 2020

Complying development under the Subdivisions Code may be carried out on the land.

Demolition Code

Complying development under the Demolition Code may be carried out on the land.

Demolition Code under Draft Georges River Local Environmental Plan 2020

Complying development under the Demolition Code may be carried out on the land.

Fire Safety Code

Complying development under the Fire Safety Code may be carried out on the land.

Fire Safety Code under Draft Georges River Local Environmental Plan 2020

Complying development under the Fire Safety Code may be carried out on the land.

Disclaimer: The information above addresses matters raised in Clause 1.17A (1) (c) to (e), (2), (3), and (4), 1.18(1) (c3) and 1.19 of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008. It is your responsibility to ensure that you comply with any other requirements of the State Environmental Planning Policy (Exempt and Complying Development Codes) 2008. Failure to comply with these provisions may mean that a Complying Development Certificate issued under the provisions of the State Environment Planning Policy (Exempt and Complying Development Codes) 2008 is invalid.

NOTE: Council does not have sufficient information to ascertain the extent to which complying development under the Codes may be carried out on the land. A restriction to carrying out complying development applies to the land, but may not apply to all of the land.

4. Coastal Protection – Repealed (03/04/2018)

4A. Coastal Protection– Repealed (03/04/2018)

4B Annual Charges under Local Government Act 1993 for coastal protection services that relate to existing coastal protection works.

In relation to a coastal council - whether the owner (or any previous owner) of the land has consented in writing to the land being subject to annual charges under section 496B of the Local Government Act 1993 for coastal protection services that relate to existing coastal protection works (within the meaning of section 553B of that Act).

Note: “Existing coastal protection works” are works to reduce the impact of coastal hazards on land (such as seawalls, revetments, groynes and beach nourishment) that existed before the commencement of section 553B of the Local Government Act 1993”.

No, according to Council's records the owner (or previous owner) of the land has not consented in writing to the land being subject to annual charges for coastal protection

services relating to existing coastal protection works (within the meaning of section 553B of the LG Act 1993).

5. Mine subsidence

Whether or not the land is proclaimed to be mine subsidence district within the meaning of section 15 of the Mine Subsidence Compensation Act, 1961

The land is not in an area proclaimed to be a mine subsidence district within the meaning of section 15 of the *Mine Subsidence Compensation Act 1961*.

6. Road widening and road realignment

Whether or not the land is affected by any road widening or road realignment under:

(a) Division 2 of Part 3 of the Roads Act 1993?

The land is not affected by road widening or road realignment under Division 2 of Part 3 of the Roads Act 1993.

(b) any environmental planning instrument?

The land is not affected by any road widening or road realignment under the provisions of any environmental planning instrument.

(c) any resolution of the Council?

The land is not affected by any road widening or road realignment under any resolution of the Council.

7. Council and other public authority policies on hazard risk restrictions

Whether or not the land is affected by a policy:

(a) adopted by the council that restricts the development of the land because of the likelihood of landslip, bushfire, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding)?

The property is affected by the following Council policies:

Airspace operations - The objective of this clause is to protect airspace around airports. (Refer Clause 6.9, Hurstville Local Environmental Plan 2012 or Clause 6.5, Kogarah Local Environmental Plan 2012).

Aircraft noise - the property is affected by Clause 6.6 Development in areas subject to aircraft noise of the Kogarah Local Environmental Plan 2012.

Water management - the property is affected by the Kogarah Water Management Policy 2006.

Contaminated land - the property is affected by the Kogarah Contaminated Land Policy 2009.

Draft Georges River Local Environmental Plan 2020

Airspace operations - The objective of this clause is to protect airspace around airports. (Refer Clause 6.8, Draft Georges River Local Environmental Plan 2020).

(b) adopted by any other public authority and notified to the council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the council, that restricts the development of the land because of the likelihood of landslip, bushfire, tidal inundation, subsidence, acid sulphate or any other risk (other than flooding)?

Council has not been notified of any policies adopted by other public authorities that restricts development of this land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulfate soils or any other risk (other than flooding).

7A. Flood related development controls information

(1) Whether or not development on that land or part of the land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or seniors housing) is subject to flood related development controls.

No. Development on the land or part of the land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or seniors housing) is not subject to flood related development controls.

(2) Whether or not development on that land or part of the land for any other purpose is subject to flood related development controls.

No. Development on the land or part of the land for any other purpose is not subject to flood related development controls.

Note 1: Words and expressions in this clause have the same meanings as in the standard instrument set out in the Schedule to the Standard Instrument (Local Environmental Plans) Order 2006.

Note 2: The answers above do not imply that the development referred to is necessarily permissible on the land to which this certificate applies. Refer to the relevant local environmental plan, deemed environmental planning instrument or draft local environmental plan applying to the land to confirm this.

8. Land reserved for acquisition

Whether or not any environmental planning instrument or proposed environmental planning instrument referred to in clause 1 makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Act?

No environmental planning instrument or proposed environmental planning instrument referred to in clause 1, makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Act.

Draft Georges River Local Environmental Plan 2020

No environmental planning instrument or proposed environmental planning instrument referred to in clause 1, makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Act.

9. Contributions plans

The name of each contribution plan applying to the land:

Section 94 Contribution Plan No. 8 - Kogarah Town Centre.

Section 94 Contribution Plan No. 9 - Kogarah Libraries.

Georges River Council Section 94A Contributions Plan 2017.

9A Biodiversity certified land

If the land is biodiversity certified land under Part 8 of the Biodiversity Conservation Act 2016, a statement to that effect.

Note. Biodiversity certified land includes land certified under Part 7AA of the Threatened Species Conservation Act 1995 that is taken to be certified under Part 8 of the Biodiversity Conservation Act 2016.

Council has not been notified by the NSW Office of Environment and Heritage, that the subject land is biodiversity certified land under Part 8 of the *Biodiversity Conservation Act 2016*.

10. Biodiversity stewardship sites

If the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the Biodiversity Conservation Act 2016, a statement to that effect (but only if the council has been notified of the existence of the agreement by the Chief Executive of the Office of Environment and Heritage).

Note. Biodiversity stewardship agreements include biobanking agreements under Part 7A of the Threatened Species Conservation Act 1995 that are taken to be biodiversity stewardship agreements under Part 5 of the Biodiversity Conservation Act 2016.

Council has not been notified by the Chief Executive of the Office of Environment and Heritage, that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the *Biodiversity Conservation Act 2016*.

10A. Native vegetation clearing set asides

If the land contains a set aside area under section 60ZC of the Local Land Services Act 2013, a statement to that effect (but only if the council has been notified of the existence of the set aside area by Local Land Services or it is registered in the public register under that section).

Council has not been notified by the Local Land Services that the land contains a set aside area nor is the land registered in the public register under section 60ZC of the Local Land Services Act 2013.

11. Bush fire prone land

If any of the land is bushfire prone land (as defined in the Act), a statement that all or, as the case may be, some of the land is bush fire prone land.

If none of the land is bush fire prone land, a statement to that effect.

The Land is not shown to be bushfire prone land in Council records.

12. Property Vegetation Plans

If the land is land to which a property vegetation plan under the Native Vegetation Act 2003 applies, a statement to that effect (but only if the council has been notified of the existence of the plan by the person or body that approved the plan under that Act).

The provisions of the *Native Vegetation Act 2003*, do not apply to the Georges River Council area.

13. Orders Under Trees (Disputes Between Neighbours) Act 2006

Whether an order has been made under the Trees (Disputes Between Neighbours) Act 2006 to carry out work in relation to a tree on the land (but only if Council has been notified of the order).

The Council has not been notified of an order under the Act in respect of tree(s) on the land.

Council has not verified whether any order has been made of which it has not been notified. The applicant should make its own enquiries in this regard if this is a matter of concern.

14. Directions under Part 3A

If there is direction by the Minister in force under section 75P (2) (c1) of the Act that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act that does not have effect, a statement to that effect identifying the provision that does not have effect.

There is no direction by the Minister in force under section 75P (2) (c1) of the *Environmental Planning and Assessment Act 1979*.

15. Site compatibility certificates and conditions for seniors housing

If the land is land to which State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 applies:

(a) a statement of whether there is a current site compatibility certificate (seniors housing) of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:

- (i) the period for which the certificate is current, and*
- (ii) that a copy may be obtained from the head office of the Department, and*

(b) a statement setting out any terms of a kind referred to in clause 18 (2) of that Policy that have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land.

- (a) Council is not aware of the issue of any current Site Compatibility Certificate (Seniors Housing) in respect of proposed development on the land.

(b) No terms of a kind referred to in Clause 18(2) of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004, have been imposed as a condition of consent to a Development Application granted after 11 October 2007 in respect of the land.

16. Site compatibility certificates for infrastructure

A statement of whether there is a valid site compatibility certificate (infrastructure), of which the council is aware, in respect of proposed development on the land and, if there is a certificate is to include:

- (a) The period for which the certificate is current, and*
- (b) That a copy may be obtained from the head office of the Department.*

Council is not aware of the issue of any valid Site Compatibility Certificate (Infrastructure), in respect of proposed development on the land.

17. Site compatibility certificates and conditions for affordable rental housing

(1) A Statement of whether there is a current site compatibility certificate (affordable rental housing), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:

- (a) The period for which the certificate is current, and*
- (b) That a copy may be obtained from the head office of the Department of Planning.*

(2) A statement setting out any terms of a kind referred to in Clause 17(1) or 37(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 that have been imposed as a condition of consent to a development application in respect of the land.

(1) Council is not aware of the issue of any current Site Compatibility Certificate (Affordable Rental Housing), in respect of proposed development on the land.

(2) No terms of a kind referred to in Clause 17(1) or 37(1) of State Environmental

Planning Policy (Affordable Rental Housing) 2009, have been imposed as a condition of consent to a Development Application in respect of the land.

18. Paper subdivision information

(1) The name of any development plan adopted by a relevant authority that applies to the land or that is proposed to be subject to a consent ballot.

There is no development plan adopted by a relevant authority that applies to the land or that is proposed to be subject to a consent ballot.

(2) The date of any subdivision order that applies to the land.

There is no subdivision order applying to the land.

(3) Words and expressions used in this clause have the same meaning as they have in Part 16C of this Regulation.

19. Site Verification Certificates

A statement of whether there is a current site verification certificate, of which the council is aware, in respect of the land and, if there is a certificate, the statement is to include:

(a) the matter certified by the certificate, and

Note: A site verification certificate sets out the Director-General's opinion as to whether the land concerned is or is not biophysical strategic agricultural land or critical industry cluster land – see Division 3 of Part 4AA of State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007.

(b) The date on which the certificates ceases to be current (if any), and

(c) That a copy may be obtained from the head office of the Department of Planning and Infrastructure.

There are no current site verification certificates applying to the subject land.

20. Loose-fill asbestos insulation

A statement if the land includes any residential premises (within the meaning of Division 1A of Part 8 of the Home Building Act 1989) that are listed on the Loose-Fill Asbestos Insulation Register maintained by the Secretary of NSW Fair Trading.

The land to which this certificate relates has not been identified in the Loose-Fill Asbestos Insulation Register as containing loose-fill asbestos ceiling insulation. Contact NSW Fair Trading for more information.

21. Affected building notices and building product rectification orders

(1) *A statement of whether there is any affected building notice of which the council is aware that is in force in respect of the land.*

Council is not aware of any affected building notice in force in respect of the land

(2) *A statement of:*

(a) *whether there is any building product rectification order of which the council is aware that is in force in respect of the land and has not been fully complied with.*

Council is not aware of any building product rectification order that is in force in respect of the land and has not been fully complied with.

(b) *whether any notice of intention to make a building product rectification order of which the council is aware has been given in respect of the land and is outstanding.*

Council is not aware of any notice of intention to make a building product rectification order that has been given in respect of the land and is outstanding.

(3) *In this clause:*

affected building notice has the same meaning as in Part 4 of the Building Products (Safety) Act 2017.

building product rectification order has the same meaning as in the Building Products (Safety) Act 2017.

Any Other Prescribed Matter

Note: The following matters are prescribed by section 59 (2) of the Contaminated Land Management Act 1997 as additional matters to be specified in a planning certificate:

(a) *that the land to which the certificate relates is significantly contaminated land within the meaning of that Act if the land (or part of the land) is significantly contaminated land at the date when the certificate is issued?*

The land has not been identified as significantly contaminated land within the meaning of the Contaminated Land Management Act 1997. (Enquiries should be directed to the NSW Environmental Protection Authority).

(b) *that the land which the certificate is the subject to a management order within the meaning of that Act - if it is subject to such an order at the date when the certificate is issued?*

The land is not subject to a management order within the meaning of the Act. (Enquiries should be directed to the NSW Environmental Protection Authority).

(c) *that the land which the certificate relates is subject of an approved voluntary management proposal within the meaning of that Act - if it is subject to such an order at the date when the certificate is issued?*

The land is not the subject of an approved voluntary management proposal within the meaning of the Act. (Enquiries should be directed to the NSW Environmental Protection

Authority).

(d) that the land which the certificate relates is subject to an ongoing maintenance order within the meaning of that Act - if it is subject to such an order at the date when the certificate is issued?

The land is not the subject of an ongoing maintenance order within the meaning of the Act. (Enquiries should be directed to the NSW Environmental Protection Authority).

(e) that the land which the certificate relates is subject of a site audit statement within the meaning of that Act – if a copy of such a statement has been provided at any time to the local authority issuing the certificate?

Council has not been provided with a site audit statement, within the meaning of the Act, for this land.

NOTE

This information is provided pursuant to section 10.7 (2) of the Environmental Planning and Assessment (EPA) Act 1979 as prescribed by Schedule 4 of the EPA Regulations 2000 and is applicable as of the date of this certificate.

Additional matters pursuant to Section 10.7(5) of the Environmental Planning and Assessment Act 1979

As requested by you, the following additional information is provided pursuant to Section 10.7(5) of the *Environmental Planning and Assessment Act 1979*.

Additional Information Pursuant to Section 10.7(5)

As requested by you, the following additional information is provided pursuant to Section 10.7(5) of the Act:

1. Adjacent to a heritage item or heritage conservation area

Is the land within the vicinity of a heritage item or heritage conservation area?

The land is shown in Council's records as being adjacent to a heritage item or heritage conservation area.

The subject land may be contained within a Heritage Conservation Area or be listed as a Heritage Item. Please refer to Questions 2(g) and 2(h) in part 2 of the Planning Certificate.

2. State Heritage Item

Does the land contain a State heritage item under the Heritage Act 1977?

The land does not contain a State Heritage item under the *Heritage Act 1977*.

3. Stormwater Drain

Is the land affected by a stormwater drain?

Council's Asset register indicates that the land is not affected by a Council stormwater drain. However an exhaustive search of all Council records, including archival records, has not been undertaken. You are advised that further investigations, at the owner's expense, may be necessary to confirm the presence of any underground stormwater drain.

4. Planning agreements

Is the land affected by a Planning Agreement?

The land is not subject to a Planning Agreement, which is a voluntary agreement providing for a public purpose through a monetary contribution or provision of works and pursuant to s7.4 to s7.10 of the Environmental Planning and Assessment Act 1979.

5. Georges River Council Studies, Policies and Plans

Are there any studies, policies or plans or drafts (which have been placed on public exhibition) which affect the land?

The following studies, policies or plans or draft studies, policies or plans (which have been placed on public exhibition) affect the land:

Information on the studies, policies or plans or draft studies, policies or plans is provided on the Georges River Council website www.georgesriver.nsw.gov.au

- Moore Reserve Catchment Overland Flow Study (2007)
- Hurstville Public Domain Plan (2007)
- Beverley Park Overland Flow Risk Management Study and Plan (2009)
- Kogarah Bay Creek Risk Management Study and Plan (2011)
- Poulton Park Overland Flow Risk Management Study and Plan (2011)
- Overland Flow Flood Study for Hurstville, Mortdale and Peakhurst Wards (2016)
- Hurstville City Centre Transport Management and Accessibility Plan (TMAP) 2018
- Hurstville City Centre Urban Design Strategy (May 2018)
- Kogarah North Urban Design Strategy (November 2017)
- Kogarah North Public Domain Plan (December 2018)
- Georges River Industrial Land Review (July 2018)
- Tidal Inundation Study (November 2018)
- Economic Development Strategy (December 2018)
- Foreshore Strategic Directions Paper (December 2018)
- Local Housing Strategy Evidence Base (January 2019)
- Inclusive Housing Strategy – Stage 1 – Assessment of Housing Needs (March 2019)
- Tree Management Policy (April 2019)
- Interim Policy – Georges River Development Control Plan 2020 (July 2019)
- Infrastructure Integration Advice Roadmap (September 2019)
- Georges River Local Strategic Planning Statement 2040 (February 2020)
- Commercial Centres Study – Part 1 Centres Analysis (February 2020)
- Heritage Review (March 2020)
- Housing Investigation Areas Paper (April 2020)
- Position Paper and the Georges River Car Parking (April 2020)
- Local Housing Strategy (August 2020)
- Inclusive Housing Strategy (August 2020)
- Draft Guidelines for Places of Public Worship
- Draft Beverly Hills Masterplan (2020)
- Stormwater Management Policy (July 2020)

6. Any Other Matters

No other matters apply.

Note: Please note that Council provides this information in good faith. Council does not accept any liability in respect of such advice. The absence of any reference to any matter affecting the land shall not imply that the land is not affected by any matter not referred to in this planning certificate.

Meryl Bishop
Director - Environment and Planning

Appendix 1 – Minutes of the Georges River Local Planning Panel meeting dated 25 and 26 June 2020

Resolution

The Georges River Local Planning Panel as delegate of the Georges River Council resolves that:

1. (a) *That the Local Planning Panel notes the written and oral submissions received during the public exhibition and the public meeting held on 25 and 26 June 2020 of the Planning Proposal (PP2019/0004) for the Georges River Local Environmental Plan 2020.*
- (b) *That the Local Planning Panel endorses the following variations to the Planning Proposal in response to the issues raised by written and oral submissions received during public exhibition and the public meeting held on 25 and 26 June 2020 in accordance with Section 3.35 of the Environmental Planning and Assessment Act 1979:*
 - a. *Additions to Clause 1.2 Aims of Plan to insert an aim relating to the protection, maintenance and improvement of waterway health;*
 - b. *Amendments to the objectives of the R2 Low Density Residential zone to insert separate objectives relating to a landscaped setting and urban design and built form;*
 - c. *Amendments to the objectives of the R3 Medium Density Residential zone to insert separate objectives relating a landscaped setting and urban design and built form;*
 - d. *Addition to the objectives of the IN2 Light Industrial zone to insert an objective to encourage repair, reuse, recycling, remanufacturing and reprocessing of waste;*
 - e. *Amendments to Clause 5.1 Relevant acquisition authority and the associated Land Reservation Acquisition Map which gives effect to the removal of the land identified as Lots 15, 16, 17, 18, 19 & 20, Section 4 in Deposited Plan 12082 known as Nos. 11 to 21 (inclusive) Monaro Avenue, Kingsgrove;*
 - f. *Amendments to Clause 6.6 Riparian lands and waterways to replace references to watercourses with waterways and insert a clause – Aboriginal cultural heritage values of waterways;*
 - g. *Amendments to Clause 6.7 Foreshore Scenic Protection Area, including:*
 - I. *Insert the words avoids and minimises disturbances on flora and fauna and inserts the word enhancement of native vegetation and habitat;*
 - II. *Retention of the existing Foreshore Scenic Protection Area as identified by the Hurstville Local Environmental Plan 2012 Foreshore Scenic Protection Area Map; and*

III. The addition of the proposed Foreshore Scenic Protection Area as exhibited by the Planning Proposal Map entitled “Foreshore Scenic Protection Area Map” and shown in pink shading.

h. Amendments to Clause 6.11 Design excellence to:

- I. Amend the waste clause to encourage the management and minimisation of waste;
- II. Delete sub clause 3(b) requiring the development to be reviewed by an urban designer or a registered architect appointed from an independent panel as nominated by Georges River Council.

- i. Amendments to Clause 6.13 Landscaped areas in certain residential and environmental protection zones to increase the minimum landscaped area requirements for dual occupancies (non-FSPA) to 25% and dual occupancies (FSPA) to 30% and to ensure new developments are accompanied by increased planting and vegetation;
- j. Addition of a new local provision – Clause 6.19 Tree protection and landscaping in Zones R2 and R3 subject to the following amendments:

Clause 6.19 Tree protection and landscaping in Zones R2 and R3

- (1) The objective of this clause is to ensure any development undertaken on land in the R2 Low Density Residential and the R3 Medium Density Residential zones maintains and enhances the landscaped character of the neighbourhood and contributes to the tree canopy of the local government area.
- (2) Before granting development consent to development on land to which this clause applies, the consent authority must consider the following —
 - (a) the extent to which the development integrates to protect existing trees, natural landscape feature (such as rock, outcrops, remnant bushland and natural watercourses) and a well-designed landscaped setting (such as new trees, shrubs and lawns and usable open space areas); and
 - (b) an assessment of the current health, condition and structure of the tree(s) on the land; and
 - (c) an assessment of the contribution made by the existing tree(s) on the land to the natural landscape or local character of the locality including environmental, heritage, cultural and amenity factors; and
 - (d) the extent to which the design of the development minimises or avoids potential conflict between trees, landscape features and

structures on site and on any neighbouring property, including the affectation on existing tree canopies and root systems; and

- (e) the building construction methods will minimise the impact on trees and their root systems on site and on any neighbouring property; and*
 - (f) existing trees on the site and any adjoining land can be retained with Tree Protection Zone (TPZ) being 12 x trunk diameter (DBH) when measured at 1.4 metres from ground level. (this is the calculation of the TPZ area),*
- (3) Development consent must not be granted to development on land to which this clause applies unless the consent authority is satisfied:*
- (a) where there are no trees on a site, one locally endemic tree reaching a mature height of 8 metres or greater is capable of being planted,*
 - (b) when one tree is proposed to be removed, two or more advanced locally endemic species (45L pot size or greater) shall be planted or, the payment of an offset fee (per tree) calculated by an endorsed method of valuation (e.g. Thyer Method of Valuation),*
 - (c) the site has deep soil planting areas and landscaped areas to allow for replanting of replacement trees and the creation of a landscape setting;*

k. Additions to Schedule 1 Additional permitted uses comprising:

- I. Insert the following allotments under Item 11 Use of certain land for a place of public worship:*
 - a. 1142 Forest Road, Lugarno, being Lot 9, DP13473 (Lugarno Anglican Church);*
 - b. 3A Old Forest Road, Lugarno, being Lot 18, DP13473 (Lugarno Anglican Church);*
 - c. 3A Old Forest Road, Lugarno, being Lot 19, DP13473 (Lugarno Anglican Church); and*
 - d. 20 River Road, Oatley, being Lot 2, Section 5, DP2297 (Oatley Gospel Church).*
- II. Delete the following allotments under Item 11 Use of certain land for a place of public worship and rezone to SP2 Educational Establishment and Place of Public Worship:*
 - a. 19 Warrawee Place, Beverly Hills, being Lots 42, 43 and 44, DP13496; and*

- b. Addition of Item 13 Use of certain land for an office premise to ensure creative industries can be located within the industrial precincts at Penshurst Lane, Penshurst and Halstead Street, South Hurstville.*
- (c) That the Local Planning Panel endorses the following variations to the Planning Proposal in accordance with Section 3.35 of the Environmental Planning and Assessment Act 1979:*
 - a. Amendment to the Land Zoning Map for 11-21 Monaro Avenue, Kingsgrove from RE1 Public Recreation to R2 Low Density Residential;*
 - b. Amendment to the Lot Size Map for 11-21 Monaro Avenue, Kingsgrove to include a minimum lot size of 450sqm;*
 - c. Amendment to the Height of Buildings Map for 11-21 Monaro Avenue, Kingsgrove to include a building height of 9 metres;*
 - d. Amendment to the Floor Space Ratio Map for 11-21 Monaro Avenue, Kingsgrove to include a floor space ratio of 0.55:1 within Area 1;*
 - e. Amendment to the Lot Size for Dual Occupancy Development Map for 11-21 Monaro Avenue, Kingsgrove to include a minimum lot size of 650sqm;*
 - f. Amendment to the Height of Buildings Map for 33 Dora Street, Hurstville from 15 metres to 30 metres;*
 - g. Amendment to the Floor Space Ratio Map for 360-362 Forest Road and 34 MacMahon Street, Hurstville from 3.5:1 to 6:1;*
 - h. Amendment to the Floor Space Ratio Map for 12-16 and 26 Princes Highway, 60B Gray Street and 5 Rocky Point Road, Kogarah from no FSR to 2:1;*
 - i. Amendment to the Lot Size for Dual Occupancy Development Map for 333-339 and 357-365 Stoney Creek Road, Kingsgrove from a 650sqm minimum lot size for dual occupancy development to no minimum lot size;*
 - j. Amendment to the Lot Size Map for 2-16 Lime Kiln Road and 1041-1041C Forest Road, Lugarno from a 700sqm minimum lot size to no minimum lot size;*
 - k. Amendment to the Lot Size for Dual Occupancy Development Map for 2-16 Lime Kiln Road and 1041-1041C Forest Road, Lugarno from a 1000sqm minimum lot size for dual occupancy development to no minimum lot size;*
 - l. Amendment to the Lot Size Map for 29A Jacques Avenue, Peakhurst from an 800sqm minimum lot size to no minimum lot size;*

- m. Amendment to the Lot Size for Dual Occupancy Development Map for 29A Jacques Avenue, Peakhurst from a 650sqm minimum lot size for dual occupancy development to no minimum lot size;*
 - n. Amendment to the Floor Space Ratio Map for 29A Jacques Avenue, Peakhurst from 0.7:1 to no maximum floor space ratio;*
 - o. Amendment to the Height of Buildings Map for 29A Jacques Avenue, Peakhurst from 9 metres to no maximum height;*
 - p. Amendment to the Height of Buildings Map for 199 Rocky Point Road, Ramsgate from 15 metres and 21 metres to 21 metres; and*
 - q. Amendment to the Floor Space Ratio Map for 199 Rocky Point Road, Ramsgate from 2.5:1 and 1.5:1 to 2.5:1.*
- (d) That the Local Planning Panel endorses the amended Planning Proposal to be forwarded to the Department of Planning, Industry and Environment for gazettal in accordance with Section 3.36 of the Environmental Planning and Assessment Act 1979.*
- (e) That the Local Planning Panel endorses the General Manager or delegate to make minor modifications to any numerical, typographical, interpretation and formatting errors, if required, in the finalisation of the Planning Proposal to be forwarded in accordance with (d) above.*
- (f) That all persons who made a written and/or oral submission to the Planning Proposal and owners of the properties affected by the mapping errors in the Addendum report be advised of the Local Planning Panel's decision.*
- 2. The Panel recommends that Council as part of the preparation of the draft Local Environmental Plan in 2021/2022, further define the role, mapped extent and zoning of Foreshore Scenic Protection Areas, in both the former Hurstville and Kogarah Local Government Areas, having regard to those properties and ridge lines visible to and from the Georges River and its tributaries, and associated environmental protection applying to those areas in order to better reflect the objectives of Clause 6.7 of the Georges River Local Environmental Plan 2020. This may include the consideration of additional environmental protection zones or modifications of the Foreshore Scenic Protection Area.*
- 3. The Panel notes the existing need for additional open space in the northern portion of the Local Government Area and encourages the Council to continue to pursue and investigate all opportunities to provide such open space including the provision of additional land in the vicinity of Peter Low Reserve as part of the preparation of the draft Local Environmental Plan in 2021/2022.*
- 4. The Panel also notes and duly acknowledges the high quality of the strategy research work by Council's staff to integrate (and harmonise) the controls set out in the*

environmental planning instruments of the former Kogarah and Hurstville Councils. This resulted in the comprehensive analysis and reporting across a range of diverse topics including a significant amount of assessment of the community comments and submissions through the challenges of the COVID-19 pandemic. Through these efforts, the Panel's task of having a full appreciation of the community's expectations was clear and concise. Moreover, the Panel's decision to retain (and expand) the Foreshore Scenic Protection Area (FSPA) boundaries was not due to draft Georges River Local Environmental Plan 2020's recommendation being unreasonable or unfounded, but rather the Panel's ultimate interpretation that the FSPA objectives which had broadened and which was a compelling factor to require a more comprehensive assessment of the landscape, vegetation and fauna habitats to address the broader objectives of FSPA in any future review of the area's boundaries.

PLANNING CERTIFICATE ISSUED UNDER SECTION 10.7(2) and 10.7(5)
ENVIRONMENTAL PLANNING AND ASSESSMENT ACT, 1979

Our Reference: **PL2021/2145**
Your Reference:
Date of Issue: **01/06/2021**

Ms Jbs&G
Level 1, 50 Margaret Street
SYDNEY NSW 2000

Property Number:	41869
Property Address:	16 Kensington Street KOGARAH NSW 2217
Legal Description:	Lot 12 DP 800476

This planning certificate should be read in conjunction with the relevant Local Environmental Plan listed under Names of Relevant Planning Instruments and DCPs. This is available on the NSW legislation website at www.legislation.nsw.gov.au

The land to which this certificate relates, being the lot or one of the lots described in the corresponding application, is shown in Council's records as being situated at the street address described on page 1 of this certificate.

It is the applicant's responsibility to confirm that the legal description of the lot to which the application relates is accurate and current. Council does not check the accuracy or currency of the information; nor does Council have the copyright to this information.

The legal description of land is obtained from NSW Land and Property Information. Applicants must verify all property and lot information with NSW Land and Property Information.

The information contained in this certificate relates only to the lot described on page 1 of this certificate.

Where the street address comprises more than one lot in one or more deposited plans or strata plans, separate planning certificates can be obtained upon application for the other lots. Those certificates may contain different information than is contained in this certificate.

This certificate is provided pursuant to Section 10.7(2) and 10.7(5) of the Act. At the date of this certificate, the subject land may be affected by the following matters.

1. Names of relevant planning instruments and DCPs

(1) The name of each environmental planning instrument that applies to the carrying out of development on the land:

The following environmental planning instruments apply to the carrying out of development on the land:

Local Environmental Plans

Kogarah Local Environmental Plan 2012

State Environmental Planning Policies

The following State Environmental Planning Policies apply:

No. 19 - Bushland in Urban Areas
No. 21 - Caravan Parks
No. 30 - Intensive Agriculture
No. 33 - Hazardous and Offensive Development
No. 50 - Canal Estate Development
No. 55 - Remediation of Land
No. 62 - Sustainable Aquaculture
No. 64 - Advertising and Signage
No. 65 - Design Quality of Residential Apartment Development
No. 70 - Affordable Housing (Revised Schemes)
SEPP (Housing for Seniors or People with a Disability) 2004
SEPP (Building Sustainability Index: BASIX) 2004
SEPP (State Significant Precincts) 2005
SEPP (Mining, Petroleum Production and Extraction Industries) 2007
SEPP (Miscellaneous Consent Provisions) 2007
SEPP (Infrastructure) 2007
SEPP (Exempt and Complying Development Codes) 2008
SEPP (Affordable Rental Housing) 2009
SEPP (State and Regional Development) 2011
SEPP (Educational Establishments and Child Care Facilities) 2017
SEPP (Vegetation in Non-Rural Areas) 2017

(2) The name of each proposed environmental planning instrument that will apply to the carrying out of development on the land and that is or has been the subject of community consultation or on public exhibition under the Act (unless the Secretary has notified the council that the making of the proposed instrument has been deferred indefinitely or has not been approved):

The following proposed environmental planning instruments that have been the subject of community consultation or on public exhibition under the Act, apply to the carrying out of development on the land:

On 27 October 2017, the NSW Department of Planning and Environment placed the proposal to repeal State Environmental Planning Policy (Miscellaneous Consent Provisions) 2007 on community consultation.

On 31 October 2017, the NSW Department of Planning and Environment placed the draft SEPP (Environment) on community consultation.

On 20 June 2018, the NSW Department of Planning and Environment placed an amendment to the SEPP (Exempt and Complying Development Codes) 2008 on community consultation.

On 5 October 2018, the NSW Department of Planning and Environment placed an amendment to SEPP (Exempt and Complying Development Codes) 2008 and Standard Instrument Order 2006 in order to provide for short-term rental accommodation in NSW.

On 30 November 2018, the NSW Department of Planning and Environment placed an amendment to SEPP 70 – Affordable Housing (Revised Schemes) on community consultation.

On 14 January 2019, the NSW Department of Planning and Environment placed on community consultation proposed amendments to a number of SEPPs that will replace the existing references to Planning for Bush Fire Protection (PBP) or associated publications with a reference to the new edition of PBP or the relevant publication. Additional amendments are also proposed in some cases to ensure that the relevant provisions are consistent with the new edition of PBP. The SEPPs to be amended are:

- State Environmental Planning Policy (Exempt and Complying Development Codes) 2008
- State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004
- State Environmental Planning Policy (Affordable Rental Housing) 2009
- State Environmental Planning Policy (Infrastructure) 2007
- State Environmental Planning Policy (Kurnell Peninsula) 1989
- State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017
- Greater Metropolitan Regional Environmental Plan No 2 – Georges River Catchment

The Planning Proposal for the Georges River Local Environmental Plan 2020 was placed on community consultation from 1 April 2020 to 31 May 2020 (inclusive). The Planning Proposal seeks to harmonise the existing Hurstville Local Environmental Plan 1994, Hurstville Local Environmental Plan 2012 and Kogarah Local Environmental Plan 2012 through the preparation of a new principal Local Environmental Plan for the Georges River LGA. The proposed Georges River Local Environmental Plan 2020 comprises of amendments to the following planning controls:

- Aims of the Plan
- Land use zones
- Zone objectives
- Land use tables
- Temporary use of land
- Exempt and complying development
- Development standards
- Land acquisition
- Miscellaneous provisions
- Miscellaneous permissible uses
- Additional local provisions
- Schedules:
 - o Schedule 1 Additional permitted uses
 - o Schedule 2 Exempt development
 - o Schedule 3 Complying development
 - o Schedule 4 Classification and reclassification of public land
 - o Schedule 5 Environmental heritage

The outcomes of community consultation and the amendments proposed to finalise the Planning Proposal were considered by the Georges River Local Planning Panel, as the delegate of the Georges River Council, at its meeting held on 25 and 26 June 2020. The Panel resolved to endorse a number of variations to the exhibited Planning Proposal and to forward the amended Planning Proposal to the Department of Planning, Industry and Environment for gazettal in accordance with Section 3.36 of the Environmental Planning and Assessment Act 1979. The resolution of the Panel is attached as **Appendix 1** to this certificate. It is also available on the Local Planning Panel webpage on Council's website: [https://www.georgesriver.nsw.gov.au/Development/Development-Applications/Local-Planning-Panel-\(LPP\)](https://www.georgesriver.nsw.gov.au/Development/Development-Applications/Local-Planning-Panel-(LPP))

The Planning Proposal (known as LEP21) was placed on community consultation from 20 January to 17 February 2021. Draft LEP21 proposes to:

- For manor house and multi dwelling housing (terraces) developments – require a minimum lot size of 800sqm for development applications and complying developments;
- For manor house developments – require a minimum lot width of 18m for development applications only;
- For multi dwelling housing (terraces) – require a minimum lot width of 21m for development applications only;
- Rezone land in the Narwee housing investigation area from R2 Low Density Residential to R3 Medium Density Residential and R4 High Density Residential to create capacity for additional housing;

- Ensure sensitive use developments as defined under the Hazardous Industry Planning Advisory Paper No.4 are restricted on Nos. 1, 3, 5, 7, 9, 11 and 13 Berrille Road, Narwee;
- Rectify existing mapping inconsistencies at 33 Dora Street, Hurstville and 199 Rocky Point Road, Ramsgate; and
- Increase the maximum building height in Hurstville – in the Hillcrest Avenue housing investigation area (being Nos. 3 to 11 Hillcrest Avenue Hurstville) from 12m to 13m, to enable residential flat building developments of four storeys.

The Planning Proposal will amend the Hurstville Local Environmental Plan 2012 and the Kogarah Local Environmental Plan 2012 (or, if gazetted, Georges River Local Environmental Plan 2020).

On 29 July 2020, the Department of Planning, Industry and Environment placed on public exhibition an Explanation of Intended Effect (EIE) for a new Housing Diversity SEPP. The new SEPP proposes to consolidate three existing, housing-related SEPPs (listed below).

The SEPPs to be amended are:

- State Environmental Planning Policy (Affordable Rental Housing) 2009
- State Environmental Planning Policy (Housing for Seniors and People with a Disability) 2004 (Seniors SEPP)
- State Environmental Planning Policy No 70—Affordable Housing (Revised Schemes) (SEPP 70)

The SEPP also proposes to amend the Standard Instrument – Principal Local Environmental Plan (Standard Instrument LEP) by introducing new definitions for build-to-rent housing, student housing and co-living developments.

The EIE was on exhibition from 29 July 2020 - 9 September 2020.

On 26 February 2021, the Department of Planning, Industry and Environment (DPIE) placed on public exhibition an Explanation of Intended Effect (EIE) for the proposed Design and Place State Environmental Policy (SEPP). The new SEPP proposes to repeal and replace the following existing SEPPs:

- State Environmental Planning Policy No. 65 (Design Quality of Residential Apartment Development) 2002; and
- State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004.

The SEPP also proposes to make the following changes to design policies and guides:

- Revise the Apartment Design Guide (ADG);
- Introduce a new Urban Design Guide (UDG); and
- Prepare a new Design Review Guide.

The EIE was on exhibition from 26 February 2021 - 28 April 2021.

On 31 March 2021, the Department of Planning, Industry and Environment (DPIE) placed on public exhibition an Explanation of Intended Effect (EIE) for the review of clause 4.6 of the Standard Instrument LEP (Exceptions to development standards) to improve the way this clause operates and provide certainty to councils and industry.

The EIE also seeks feedback on proposed measures to increase transparency, accountability and probity by strengthening council reporting requirements on variation decisions, in line with ICAC recommendations.

The Environmental Planning and Assessment Regulation 2000 will be amended to include the current requirements to fulfill procedural and reporting requirements when development standards are varied, including Council's publishing reasons for granting or refusing a variation request on the NSW Planning Portal.

The EIE was on exhibition from 31 March - 12 May 2021.

On 1 April 2021, the Department of Planning, Industry and Environment (DPIE) placed on public exhibition an Explanation of Intended Effect (EIE) for proposed reforms to the Codes SEPP through Building Business Back Better. The reforms propose the following four key areas:

1. Enabling land use and business agility for retail, commercial and industrial development reducing barriers in utilising existing space.
2. Optimising opportunities for industrial and commercial development.
3. Neighbourhood centre activation, strengthening our increasingly important local networks.
4. Streamlining the delivery of data centres to support networks.

The EIE was on exhibition from 1 April 2021 - 9 May 2021.

(3) The name of each development control plan that applies to the carrying out of development on the land:

The following development control plans apply to the carrying out of development on the land:

Kogarah Development Control Plan 2013.

NOTE: Council has prepared a new Development Control Plan to replace the Kogarah Development Control Plan 2013 and the Hurstville Development Control Plan No. 1. The draft Georges River DCP 2020 was on public exhibition from 21 October to 27 November 2020.

(4) In this clause, proposed environmental planning instrument includes a planning proposal for a LEP or a draft environmental planning instrument

2. Zoning and land use under relevant LEPs

For each environmental planning instrument or proposed instrument referred to in clause 1 (other than a SEPP or proposed SEPP) that includes the land in any zone (however described).

(a) the identity of the zone, whether by reference to a name (such as "Residential Zone" or "Heritage Area") or by reference to a number (such as "Zone No 2 (a)"),

(b) the purposes for which the instrument provides that development may be carried out within the zone without the need for development consent,

(c) the purposes for which the instrument provides that development may not be carried out within the zone except with development consent,

(d) the purposes for which the instrument provides that development is prohibited within the zone,

Zone SP2 Infrastructure under Kogarah Local Environmental Plan 2012

2 Permitted without consent

Nil

3 Permitted with consent

Aquaculture; Car parks; Centre-based child care facilities; Commercial premises; Community facilities; Depots; Environmental facilities; Environmental protection works; Markets; Places of public worship; Public administration buildings; Recreation areas; Respite day care centres; Roads; Signage; The purpose shown on the Land Zoning Map, including any development that is ordinarily incidental or ancillary to development for that purpose

4 Prohibited

Any development not specified in item 2 or 3

Zone and land uses under the draft Georges River LEP 2020

Zone SP2 Infrastructure

2 Permitted without consent

Nil.

3 Permitted with consent

Aquaculture; Car parks; Community facilities; Markets; Public administration buildings; Recreation areas; Respite day care centres; Roads; Signage; The purpose shown on the Land Zoning Map, including any development that is ordinarily incidental or ancillary to development for that purpose.

4 Prohibited

Any other development not specified in item 2 or 3.

(e) whether any development standards applying to the land fix minimum land dimensions for the erection of a dwelling-house on the land and, if so, the minimum land dimensions so fixed,

There are no development standards applying to the land which fix minimum land dimensions for the erection of a dwelling house under the Kogarah Local Environmental Plan 2012.

Draft Georges River Local Environmental Plan 2020

There are no development standards applying to the land which fix minimum land dimensions for the erection of a dwelling house under the Draft Georges River Local Environmental Plan 2020.

(f) whether the land includes or comprises critical habitat,

The land does not include or comprise critical habitat under any environmental planning instrument.

Draft Georges River Local Environmental Plan 2020

The land does not include or comprise critical habitat under the draft Georges River Local Environmental Plan 2020.

(g) whether the land is in a conservation area (however described),

The land is not located within a conservation area under the provisions of Kogarah Local Environmental Plan 2012.

Draft Georges River Local Environmental Plan 2020

The land is not located within a conservation area under the provisions of the Draft Georges River Local Environmental Plan 2020.

(h) whether an item of environmental heritage (however described) is situated on the land.

The land does not contain a heritage item under the provisions of *Kogarah Local Environmental Plan 2012*.

Draft Georges River Local Environmental Plan 2020

The land does not contain a heritage item under the provisions of Draft Georges River Local Environmental Plan 2020.

2A Zoning and land use under State Environmental Planning Policy (Sydney Region Growth Centres) 2006

To the extent that the land is within any zone (however described) under:

(a) Part 3 of the State Environmental Planning Policy (Sydney Region Growth Centres) 2006 (the 2006 SEPP), or

(b) a Precinct Plan (within the meaning of the 2006 SEPP), or

(c) a proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act, the particulars referred to in clause 2(a)-(h) in relation to that land (with a reference to “the instrument” in any of those paragraphs being read as a reference to Part 3 of the 2006 SEPP, or the Precinct Plan or proposed Precinct Plan, as the case requires).

The State Environmental Planning Policy (Sydney Region Growth Centres) 2006 does not identify land within the Georges River Local Government Area as a growth centre and therefore the policy does not apply.

3. Complying Development

(1) The extent to which the land is land on which complying development may be carried out under each of the codes for complying development because of the provisions of clauses 1.17A (1)(c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

(2) The extent to which complying development may not be carried out on that land because of the provisions of clauses 1.17A (1)(c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of that Policy and the reasons why it may not be carried out under those clauses.

(3) If the Council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on that land, a statement that a restriction applies to the land, but it may not apply to all of the land, and that council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land.

Housing Code

Complying development under the Housing Code may not be carried out on the land. The land is either wholly or partially affected by specific land exemptions:

- The land is reserved for a public purpose in an environmental planning instrument. Please consult the Land Zoning Map and Land Reservation Acquisition Map of the Hurstville Local Environmental Plan 2012 or the Land Zoning Map and Land Reservation Acquisition Map of the Kogarah Local Environmental Plan 2012 to confirm the extent to which complying development may or may not be carried out on the land.

Note: The erection of a new dwelling house or an addition to a dwelling house on land in the 20-25 ANEF contours is complying development for this Policy, if the development is constructed in accordance with AS 2021—2000, Acoustics—Aircraft noise intrusion—Building siting and construction.

Please check ANEF contour the land is located within.

Housing Code under Draft Georges River Local Environmental Plan 2020

Complying development under the Housing Code may be carried out on the land.

Note: The erection of a new dwelling house or an addition to a dwelling house on land in the 20-25 ANEF contours is complying development for this Policy, if the development is constructed in accordance with AS 2021—2000, Acoustics—Aircraft noise intrusion—Building siting and construction.

Please check ANEF contour the land is located within.

Rural Housing Code

Complying development under the Rural Housing Code does not apply as the land is not zoned RU1 Primary Production, RU2 Rural Landscape, RU3 Forestry, RU4 Primary Production Small Lots, RU6 Transition and R5 Large Lot Residential.

Low Rise Housing Diversity Code

Complying development under the Low Rise Housing Diversity Code may not be carried out on the land. The land is either wholly or partially affected by specific land exemptions:

- The land is reserved for a public purpose in an environmental planning instrument. Please consult the Land Zoning Map and Land Reservation Acquisition Map of the Hurstville Local Environmental Plan 2012 or the Land Zoning Map and Land Reservation Acquisition Map of the Kogarah Local Environmental Plan 2012 to confirm the extent to which complying development may or may not be carried out on the land.

Note: The erection of a new dwelling house or an addition to a dwelling house on land in the 20-25 ANEF contours is complying development for this Policy, if the development is constructed in accordance with AS 2021—2000, Acoustics—Aircraft noise intrusion—Building siting and construction.

Please check ANEF contour the land is located within.

Low Rise Housing Diversity Code under Draft Georges River Local Environmental Plan 2020

Complying development under the Low Rise Housing Diversity Code may be carried out on the land.

Note: The erection of a new dwelling house or an addition to a dwelling house on land in the 20-25 ANEF contours is complying development for this Policy, if the development is constructed in accordance with AS 2021—2000, Acoustics—Aircraft noise intrusion—Building siting and construction.

Please check ANEF contour the land is located within.

Inland Code

Complying development under the Inland Code does not apply to Georges River Council

Local Government Area.

Greenfield Housing Code

Complying development under the Greenfield Housing Code does not apply to Georges River Council Local Government Area.

Housing Alterations Code

Complying development under the Housing Alterations Code may be carried out on the land.

Note: The erection of a new dwelling house or an addition to a dwelling house on land in the 20-25 ANEF contours is complying development for this Policy, if the development is constructed in accordance with AS 2021—2000, Acoustics—Aircraft noise intrusion—Building siting and construction.

Please check ANEF contour the land is located within.

Housing Alterations Code under Draft Georges River Local Environmental Plan 2020

Complying development under the Housing Alterations Code may be carried out on the land.

Note: The erection of a new dwelling house or an addition to a dwelling house on land in the 20-25 ANEF contours is complying development for this Policy, if the development is constructed in accordance with AS 2021—2000, Acoustics—Aircraft noise intrusion—Building siting and construction.

Please check the ANEF contour the land is located within.

General Development Code

Complying development under the General Development Code may be carried out on the land.

Note: The erection of a new dwelling house or an addition to a dwelling house on land in the 20-25 ANEF contours is complying development for this Policy, if the development is constructed in accordance with AS 2021—2000, Acoustics—Aircraft noise intrusion—Building siting and construction.

Please check the ANEF contour the land is located within.

General Development Code under Draft Georges River Local Environmental Plan 2020

Complying development under the General Development Code may be carried out on the land.

Note: The erection of a new dwelling house or an addition to a dwelling house on land in the 20-25 ANEF contours is complying development for this Policy, if the development is

constructed in accordance with AS 2021—2000, Acoustics—Aircraft noise intrusion—Building siting and construction.

Please check the ANEF contour the land is located within.

Commercial and Industrial Alterations Code

Complying development under the Commercial and Industrial Alterations Code may be carried out on the land.

Commercial and Industrial Alterations Code under Draft Georges River Local Environmental Plan 2020

Complying development under the Commercial and Industrial Alterations Code may be carried out on the land.

Commercial and Industrial (New Buildings and Additions) Code

Complying development under the Commercial and Industrial (New Buildings and Alterations) Code may not be carried out on the land. The land is either wholly or partially affected by specific land exemptions:

- The land is reserved for a public purpose in an environmental planning instrument. Please consult the Land Zoning Map and Land Reservation Acquisition Map of the Hurstville Local Environmental Plan 2012 or the Land Zoning Map and Land Reservation Acquisition Map of the Kogarah Local Environmental Plan 2012 to confirm the extent to which complying development may or may not be carried out on the land.

Commercial and Industrial (New Buildings and Additions) Code under Draft Georges River Local Environmental Plan 2020

Complying development under the Commercial and Industrial (New Buildings and Additions) Code may be carried out on the land.

Container Recycling Facilities Code

Complying development under the Container Recycling Facilities Code may be carried out on the land.

Container Recycling Facilities Code under Draft Georges River Local Environmental Plan 2020

Complying development under the Container Recycling Facilities Code may be carried out on the land.

Subdivision Code

Complying development under the Subdivision Code may be carried out on the land.

Subdivision Code under Draft Georges River Local Environmental Plan 2020

Complying development under the Subdivisions Code may be carried out on the land.

Demolition Code

Complying development under the Demolition Code may be carried out on the land.

Demolition Code under Draft Georges River Local Environmental Plan 2020

Complying development under the Demolition Code may be carried out on the land.

Fire Safety Code

Complying development under the Fire Safety Code may be carried out on the land.

Fire Safety Code under Draft Georges River Local Environmental Plan 2020

Complying development under the Fire Safety Code may be carried out on the land.

Disclaimer: The information above addresses matters raised in Clause 1.17A (1) (c) to (e), (2), (3), and (4), 1.18(1) (c3) and 1.19 of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008. It is your responsibility to ensure that you comply with any other requirements of the State Environmental Planning Policy (Exempt and Complying Development Codes) 2008. Failure to comply with these provisions may mean that a Complying Development Certificate issued under the provisions of the State Environment Planning Policy (Exempt and Complying Development Codes) 2008 is invalid.

NOTE: Council does not have sufficient information to ascertain the extent to which complying development under the Codes may be carried out on the land. A restriction to carrying out complying development applies to the land, but may not apply to all of the land.

4. Coastal Protection – Repealed (03/04/2018)

4A. Coastal Protection– Repealed (03/04/2018)

4B Annual Charges under Local Government Act 1993 for coastal protection services that relate to existing coastal protection works.

In relation to a coastal council - whether the owner (or any previous owner) of the land has consented in writing to the land being subject to annual charges under section 496B of the Local Government Act 1993 for coastal protection services that relate to existing coastal protection works (within the meaning of section 553B of that Act).

Note: “Existing coastal protection works” are works to reduce the impact of coastal hazards on land (such as seawalls, revetments, groynes and beach nourishment) that existed before the commencement of section 553B of the Local Government Act 1993”.

No, according to Council's records the owner (or previous owner) of the land has not consented in writing to the land being subject to annual charges for coastal protection

services relating to existing coastal protection works (within the meaning of section 553B of the LG Act 1993).

5. Mine subsidence

Whether or not the land is proclaimed to be mine subsidence district within the meaning of section 15 of the Mine Subsidence Compensation Act, 1961

The land is not in an area proclaimed to be a mine subsidence district within the meaning of section 15 of the *Mine Subsidence Compensation Act 1961*.

6. Road widening and road realignment

Whether or not the land is affected by any road widening or road realignment under:

(a) Division 2 of Part 3 of the Roads Act 1993?

The land is not affected by road widening or road realignment under Division 2 of Part 3 of the Roads Act 1993.

(b) any environmental planning instrument?

The land is not affected by any road widening or road realignment under the provisions of any environmental planning instrument.

(c) any resolution of the Council?

The land is not affected by any road widening or road realignment under any resolution of the Council.

7. Council and other public authority policies on hazard risk restrictions

Whether or not the land is affected by a policy:

(a) adopted by the council that restricts the development of the land because of the likelihood of landslip, bushfire, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding)?

The property is affected by the following Council policies:

Airspace operations - The objective of this clause is to protect airspace around airports. (Refer Clause 6.9, Hurstville Local Environmental Plan 2012 or Clause 6.5, Kogarah Local Environmental Plan 2012).

Aircraft noise - the property is affected by Clause 6.6 Development in areas subject to aircraft noise of the Kogarah Local Environmental Plan 2012.

Water management - the property is affected by the Kogarah Water Management Policy 2006.

Contaminated land - the property is affected by the Kogarah Contaminated Land Policy 2009.

Draft Georges River Local Environmental Plan 2020

Airspace operations - The objective of this clause is to protect airspace around airports. (Refer Clause 6.8, Draft Georges River Local Environmental Plan 2020).

(b) adopted by any other public authority and notified to the council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the council, that restricts the development of the land because of the likelihood of landslip, bushfire, tidal inundation, subsidence, acid sulphate or any other risk (other than flooding)?

Council has not been notified of any policies adopted by other public authorities that restricts development of this land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulfate soils or any other risk (other than flooding).

7A. Flood related development controls information

(1) Whether or not development on that land or part of the land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or seniors housing) is subject to flood related development controls.

No. Development on the land or part of the land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or seniors housing) is not subject to flood related development controls.

(2) Whether or not development on that land or part of the land for any other purpose is subject to flood related development controls.

Yes - The development of the land or part of the land for a purpose not referred to in Question 7A(1) may be subject to stormwater flooding related development controls. For more information please contact Council's Catchments & Waterways section on 9330 6400.

Note 1: Words and expressions in this clause have the same meanings as in the standard instrument set out in the Schedule to the Standard Instrument (Local Environmental Plans) Order 2006.

Note 2: The answers above do not imply that the development referred to is necessarily permissible on the land to which this certificate applies. Refer to the relevant local environmental plan, deemed environmental planning instrument or draft local environmental plan applying to the land to confirm this.

8. Land reserved for acquisition

Whether or not any environmental planning instrument or proposed environmental planning instrument referred to in clause 1 makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Act?

No environmental planning instrument or proposed environmental planning instrument referred to in clause 1, makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Act.

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No environmental planning instrument or proposed environmental planning instrument referred to in clause 1, makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Act.

9. Contributions plans

The name of each contribution plan applying to the land:

Section 94 Contribution Plan No. 8 - Kogarah Town Centre.

Section 94 Contribution Plan No. 9 - Kogarah Libraries.

Georges River Council Section 94A Contributions Plan 2017.

9A Biodiversity certified land

If the land is biodiversity certified land under Part 8 of the Biodiversity Conservation Act 2016, a statement to that effect.

Note. Biodiversity certified land includes land certified under Part 7AA of the Threatened Species Conservation Act 1995 that is taken to be certified under Part 8 of the Biodiversity Conservation Act 2016.

Council has not been notified by the NSW Office of Environment and Heritage, that the subject land is biodiversity certified land under Part 8 of the *Biodiversity Conservation Act 2016*.

10. Biodiversity stewardship sites

If the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the Biodiversity Conservation Act 2016, a statement to that effect (but only if the council has been notified of the existence of the agreement by the Chief Executive of the Office of Environment and Heritage).

Note. Biodiversity stewardship agreements include biobanking agreements under Part 7A of the Threatened Species Conservation Act 1995 that are taken to be biodiversity stewardship agreements under Part 5 of the Biodiversity Conservation Act 2016.

Council has not been notified by the Chief Executive of the Office of Environment and Heritage, that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the *Biodiversity Conservation Act 2016*.

10A. Native vegetation clearing set asides

If the land contains a set aside area under section 60ZC of the Local Land Services Act 2013, a statement to that effect (but only if the council has been notified of the existence of the set aside area by Local Land Services or it is registered in the public register under that section).

Council has not been notified by the Local Land Services that the land contains a set aside area nor is the land registered in the public register under section 60ZC of the Local Land Services Act 2013.

11. Bush fire prone land

If any of the land is bushfire prone land (as defined in the Act), a statement that all or, as the case may be, some of the land is bush fire prone land.

If none of the land is bush fire prone land, a statement to that effect.

The Land is not shown to be bushfire prone land in Council records.

12. Property Vegetation Plans

If the land is land to which a property vegetation plan under the Native Vegetation Act 2003 applies, a statement to that effect (but only if the council has been notified of the existence of the plan by the person or body that approved the plan under that Act).

The provisions of the *Native Vegetation Act 2003*, do not apply to the Georges River Council area.

13. Orders Under Trees (Disputes Between Neighbours) Act 2006

Whether an order has been made under the Trees (Disputes Between Neighbours) Act 2006 to carry out work in relation to a tree on the land (but only if Council has been notified of the order).

The Council has not been notified of an order under the Act in respect of tree(s) on the land.

Council has not verified whether any order has been made of which it has not been notified. The applicant should make its own enquiries in this regard if this is a matter of concern.

14. Directions under Part 3A

If there is direction by the Minister in force under section 75P (2) (c1) of the Act that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act that does not have effect, a statement to that effect identifying the provision that does not have effect.

There is no direction by the Minister in force under section 75P (2) (c1) of the *Environmental Planning and Assessment Act 1979*.

15. Site compatibility certificates and conditions for seniors housing

If the land is land to which State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 applies:

(a) a statement of whether there is a current site compatibility certificate (seniors housing) of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:

- (i) the period for which the certificate is current, and*
- (ii) that a copy may be obtained from the head office of the Department, and*

(b) a statement setting out any terms of a kind referred to in clause 18 (2) of that Policy that have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land.

- (a) Council is not aware of the issue of any current Site Compatibility Certificate (Seniors Housing) in respect of proposed development on the land.

(b) No terms of a kind referred to in Clause 18(2) of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004, have been imposed as a condition of consent to a Development Application granted after 11 October 2007 in respect of the land.

16. Site compatibility certificates for infrastructure

A statement of whether there is a valid site compatibility certificate (infrastructure), of which the council is aware, in respect of proposed development on the land and, if there is a certificate is to include:

- (a) The period for which the certificate is current, and*
- (b) That a copy may be obtained from the head office of the Department.*

Council is not aware of the issue of any valid Site Compatibility Certificate (Infrastructure), in respect of proposed development on the land.

17. Site compatibility certificates and conditions for affordable rental housing

(1) A Statement of whether there is a current site compatibility certificate (affordable rental housing), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:

- (a) The period for which the certificate is current, and*
- (b) That a copy may be obtained from the head office of the Department of Planning.*

(2) A statement setting out any terms of a kind referred to in Clause 17(1) or 37(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 that have been imposed as a condition of consent to a development application in respect of the land.

(1) Council is not aware of the issue of any current Site Compatibility Certificate (Affordable Rental Housing), in respect of proposed development on the land.

(2) No terms of a kind referred to in Clause 17(1) or 37(1) of State Environmental

Planning Policy (Affordable Rental Housing) 2009, have been imposed as a condition of consent to a Development Application in respect of the land.

18. Paper subdivision information

(1) The name of any development plan adopted by a relevant authority that applies to the land or that is proposed to be subject to a consent ballot.

There is no development plan adopted by a relevant authority that applies to the land or that is proposed to be subject to a consent ballot.

(2) The date of any subdivision order that applies to the land.

There is no subdivision order applying to the land.

(3) Words and expressions used in this clause have the same meaning as they have in Part 16C of this Regulation.

19. Site Verification Certificates

A statement of whether there is a current site verification certificate, of which the council is aware, in respect of the land and, if there is a certificate, the statement is to include:

(a) the matter certified by the certificate, and

Note: A site verification certificate sets out the Director-General's opinion as to whether the land concerned is or is not biophysical strategic agricultural land or critical industry cluster land – see Division 3 of Part 4AA of State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007.

(b) The date on which the certificates ceases to be current (if any), and

(c) That a copy may be obtained from the head office of the Department of Planning and Infrastructure.

There are no current site verification certificates applying to the subject land.

20. Loose-fill asbestos insulation

A statement if the land includes any residential premises (within the meaning of Division 1A of Part 8 of the Home Building Act 1989) that are listed on the Loose-Fill Asbestos Insulation Register maintained by the Secretary of NSW Fair Trading.

The land to which this certificate relates has not been identified in the Loose-Fill Asbestos Insulation Register as containing loose-fill asbestos ceiling insulation. Contact NSW Fair Trading for more information.

21. Affected building notices and building product rectification orders

(1) *A statement of whether there is any affected building notice of which the council is aware that is in force in respect of the land.*

Council is not aware of any affected building notice in force in respect of the land

(2) *A statement of:*

(a) *whether there is any building product rectification order of which the council is aware that is in force in respect of the land and has not been fully complied with.*

Council is not aware of any building product rectification order that is in force in respect of the land and has not been fully complied with.

(b) *whether any notice of intention to make a building product rectification order of which the council is aware has been given in respect of the land and is outstanding.*

Council is not aware of any notice of intention to make a building product rectification order that has been given in respect of the land and is outstanding.

(3) *In this clause:*

affected building notice has the same meaning as in Part 4 of the Building Products (Safety) Act 2017.

building product rectification order has the same meaning as in the Building Products (Safety) Act 2017.

Any Other Prescribed Matter

Note: The following matters are prescribed by section 59 (2) of the Contaminated Land Management Act 1997 as additional matters to be specified in a planning certificate:

(a) *that the land to which the certificate relates is significantly contaminated land within the meaning of that Act if the land (or part of the land) is significantly contaminated land at the date when the certificate is issued?*

The land has not been identified as significantly contaminated land within the meaning of the Contaminated Land Management Act 1997. (Enquiries should be directed to the NSW Environmental Protection Authority).

(b) *that the land which the certificate is the subject to a management order within the meaning of that Act - if it is subject to such an order at the date when the certificate is issued?*

The land is not subject to a management order within the meaning of the Act. (Enquiries should be directed to the NSW Environmental Protection Authority).

(c) *that the land which the certificate relates is subject of an approved voluntary management proposal within the meaning of that Act - if it is subject to such an order at the date when the certificate is issued?*

The land is not the subject of an approved voluntary management proposal within the meaning of the Act. (Enquiries should be directed to the NSW Environmental Protection

Authority).

(d) that the land which the certificate relates is subject to an ongoing maintenance order within the meaning of that Act - if it is subject to such an order at the date when the certificate is issued?

The land is not the subject of an ongoing maintenance order within the meaning of the Act. (Enquiries should be directed to the NSW Environmental Protection Authority).

(e) that the land which the certificate relates is subject of a site audit statement within the meaning of that Act – if a copy of such a statement has been provided at any time to the local authority issuing the certificate?

Council has not been provided with a site audit statement, within the meaning of the Act, for this land.

NOTE

This information is provided pursuant to section 10.7 (2) of the Environmental Planning and Assessment (EPA) Act 1979 as prescribed by Schedule 4 of the EPA Regulations 2000 and is applicable as of the date of this certificate.

Additional matters pursuant to Section 10.7(5) of the Environmental Planning and Assessment Act 1979

As requested by you, the following additional information is provided pursuant to Section 10.7(5) of the *Environmental Planning and Assessment Act 1979*.

Additional Information Pursuant to Section 10.7(5)

As requested by you, the following additional information is provided pursuant to Section 10.7(5) of the Act:

1. Adjacent to a heritage item or heritage conservation area

Is the land within the vicinity of a heritage item or heritage conservation area?

The land is shown in Council's records as not being adjacent to a heritage item or heritage conservation area. However, the subject land may be contained within a Heritage Conservation Area or listed as a Heritage Item. Please refer to Questions 2(g) and 2(h) in Part 2 of the Planning Certificate for confirmation or otherwise.

2. State Heritage Item

Does the land contain a State heritage item under the Heritage Act 1977?

The land does not contain a State Heritage item under the *Heritage Act 1977*.

3. Stormwater Drain

Is the land affected by a stormwater drain?

Yes. Council's Asset register indicates that the land may be affected by a Council stormwater drain. You are advised to contact Council's drainage engineers for further information.

4. Planning agreements

Is the land affected by a Planning Agreement?

The land is not subject to a Planning Agreement, which is a voluntary agreement providing for a public purpose through a monetary contribution or provision of works and pursuant to s7.4 to s7.10 of the Environmental Planning and Assessment Act 1979.

5. Georges River Council Studies, Policies and Plans

Are there any studies, policies or plans or drafts (which have been placed on public exhibition) which affect the land?

The following studies, policies or plans or draft studies, policies or plans (which have been placed on public exhibition) affect the land:

Information on the studies, policies or plans or draft studies, policies or plans is provided on the Georges River Council website www.georgesriver.nsw.gov.au

- Moore Reserve Catchment Overland Flow Study (2007)
- Hurstville Public Domain Plan (2007)
- Beverley Park Overland Flow Risk Management Study and Plan (2009)
- Kogarah Bay Creek Risk Management Study and Plan (2011)

- Poulton Park Overland Flow Risk Management Study and Plan (2011)
- Overland Flow Flood Study for Hurstville, Mortdale and Peakhurst Wards (2016)
- Hurstville City Centre Transport Management and Accessibility Plan (TMAP) 2018
- Hurstville City Centre Urban Design Strategy (May 2018)
- Kogarah North Urban Design Strategy (November 2017)
- Kogarah North Public Domain Plan (December 2018)
- Georges River Industrial Land Review (July 2018)
- Tidal Inundation Study (November 2018)
- Economic Development Strategy (December 2018)
- Foreshore Strategic Directions Paper (December 2018)
- Local Housing Strategy Evidence Base (January 2019)
- Inclusive Housing Strategy – Stage 1 – Assessment of Housing Needs (March 2019)
- Tree Management Policy (April 2019)
- Interim Policy – Georges River Development Control Plan 2020 (July 2019)
- Infrastructure Integration Advice Roadmap (September 2019)
- Georges River Local Strategic Planning Statement 2040 (February 2020)
- Commercial Centres Study – Part 1 Centres Analysis (February 2020)
- Heritage Review (March 2020)
- Housing Investigation Areas Paper (April 2020)
- Position Paper and the Georges River Car Parking (April 2020)
- Local Housing Strategy (August 2020)
- Inclusive Housing Strategy (August 2020)
- Draft Guidelines for Places of Public Worship
- Draft Beverly Hills Masterplan (2020)
- Stormwater Management Policy (July 2020)

6. Any Other Matters

No other matters apply.

Note: Please note that Council provides this information in good faith. Council does not accept any liability in respect of such advice. The absence of any reference to any matter affecting the land shall not imply that the land is not affected by any matter not referred to in this planning certificate.

Meryl Bishop
Director - Environment and Planning

Appendix 1 – Minutes of the Georges River Local Planning Panel meeting dated 25 and 26 June 2020

Resolution

The Georges River Local Planning Panel as delegate of the Georges River Council resolves that:

1. (a) *That the Local Planning Panel notes the written and oral submissions received during the public exhibition and the public meeting held on 25 and 26 June 2020 of the Planning Proposal (PP2019/0004) for the Georges River Local Environmental Plan 2020.*
- (b) *That the Local Planning Panel endorses the following variations to the Planning Proposal in response to the issues raised by written and oral submissions received during public exhibition and the public meeting held on 25 and 26 June 2020 in accordance with Section 3.35 of the Environmental Planning and Assessment Act 1979:*
 - a. *Additions to Clause 1.2 Aims of Plan to insert an aim relating to the protection, maintenance and improvement of waterway health;*
 - b. *Amendments to the objectives of the R2 Low Density Residential zone to insert separate objectives relating to a landscaped setting and urban design and built form;*
 - c. *Amendments to the objectives of the R3 Medium Density Residential zone to insert separate objectives relating a landscaped setting and urban design and built form;*
 - d. *Addition to the objectives of the IN2 Light Industrial zone to insert an objective to encourage repair, reuse, recycling, remanufacturing and reprocessing of waste;*
 - e. *Amendments to Clause 5.1 Relevant acquisition authority and the associated Land Reservation Acquisition Map which gives effect to the removal of the land identified as Lots 15, 16, 17, 18, 19 & 20, Section 4 in Deposited Plan 12082 known as Nos. 11 to 21 (inclusive) Monaro Avenue, Kingsgrove;*
 - f. *Amendments to Clause 6.6 Riparian lands and waterways to replace references to watercourses with waterways and insert a clause – Aboriginal cultural heritage values of waterways;*
 - g. *Amendments to Clause 6.7 Foreshore Scenic Protection Area, including:*
 - I. *Insert the words avoids and minimises disturbances on flora and fauna and inserts the word enhancement of native vegetation and habitat;*
 - II. *Retention of the existing Foreshore Scenic Protection Area as identified by the Hurstville Local Environmental Plan 2012 Foreshore Scenic Protection Area Map; and*
 - III. *The addition of the proposed Foreshore Scenic Protection Area as exhibited by the Planning Proposal Map entitled “Foreshore Scenic Protection Area Map” and shown in pink shading.*

h. Amendments to Clause 6.11 Design excellence to:

- I. Amend the waste clause to encourage the management and minimisation of waste;*
- II. Delete sub clause 3(b) requiring the development to be reviewed by an urban designer or a registered architect appointed from an independent panel as nominated by Georges River Council.*
- i. Amendments to Clause 6.13 Landscaped areas in certain residential and environmental protection zones to increase the minimum landscaped area requirements for dual occupancies (non-FSPA) to 25% and dual occupancies (FSPA) to 30% and to ensure new developments are accompanied by increased planting and vegetation;*
- j. Addition of a new local provision – Clause 6.19 Tree protection and landscaping in Zones R2 and R3 subject to the following amendments:*

Clause 6.19 Tree protection and landscaping in Zones R2 and R3

- (1) The objective of this clause is to ensure any development undertaken on land in the R2 Low Density Residential and the R3 Medium Density Residential zones maintains and enhances the landscaped character of the neighbourhood and contributes to the tree canopy of the local government area.*
- (2) Before granting development consent to development on land to which this clause applies, the consent authority must consider the following —*
 - (a) the extent to which the development integrates to protect existing trees, natural landscape feature (such as rock, outcrops, remnant bushland and natural watercourses) and a well-designed landscaped setting (such as new trees, shrubs and lawns and usable open space areas); and*
 - (b) an assessment of the current health, condition and structure of the tree(s) on the land; and*
 - (c) an assessment of the contribution made by the existing tree(s) on the land to the natural landscape or local character of the locality including environmental, heritage, cultural and amenity factors; and*
 - (d) the extent to which the design of the development minimises or avoids potential conflict between trees, landscape features and structures on site and on any neighbouring property, including the affectation on existing tree canopies and root systems; and*
 - (e) the building construction methods will minimise the impact on trees and their root systems on site and on any neighbouring property; and*

- (f) *existing trees on the site and any adjoining land can be retained with Tree Protection Zone (TPZ) being 12 x trunk diameter (DBH) when measured at 1.4 metres from ground level. (this is the calculation of the TPZ area),*
- (3) *Development consent must not be granted to development on land to which this clause applies unless the consent authority is satisfied:*
 - (a) *where there are no trees on a site, one locally endemic tree reaching a mature height of 8 metres or greater is capable of being planted,*
 - (b) *when one tree is proposed to be removed, two or more advanced locally endemic species (45L pot size or greater) shall be planted or, the payment of an offset fee (per tree) calculated by an endorsed method of valuation (e.g. Thyer Method of Valuation),*
 - (c) *the site has deep soil planting areas and landscaped areas to allow for replanting of replacement trees and the creation of a landscape setting;*
- k. *Additions to Schedule 1 Additional permitted uses comprising:*
 - I. *Insert the following allotments under Item 11 Use of certain land for a place of public worship:*
 - a. *1142 Forest Road, Lugarno, being Lot 9, DP13473 (Lugarno Anglican Church);*
 - b. *3A Old Forest Road, Lugarno, being Lot 18, DP13473 (Lugarno Anglican Church);*
 - c. *3A Old Forest Road, Lugarno, being Lot 19, DP13473 (Lugarno Anglican Church); and*
 - d. *20 River Road, Oatley, being Lot 2, Section 5, DP2297 (Oatley Gospel Church).*
 - II. *Delete the following allotments under Item 11 Use of certain land for a place of public worship and rezone to SP2 Educational Establishment and Place of Public Worship:*
 - a. *19 Warrawee Place, Beverly Hills, being Lots 42, 43 and 44, DP13496; and*
 - b. *Addition of Item 13 Use of certain land for an office premise to ensure creative industries can be located within the industrial precincts at Penshurst Lane, Penshurst and Halstead Street, South Hurstville.*

- (c) *That the Local Planning Panel endorses the following variations to the Planning Proposal in accordance with Section 3.35 of the Environmental Planning and Assessment Act 1979:*
- a. *Amendment to the Land Zoning Map for 11-21 Monaro Avenue, Kingsgrove from RE1 Public Recreation to R2 Low Density Residential;*
 - b. *Amendment to the Lot Size Map for 11-21 Monaro Avenue, Kingsgrove to include a minimum lot size of 450sqm;*
 - c. *Amendment to the Height of Buildings Map for 11-21 Monaro Avenue, Kingsgrove to include a building height of 9 metres;*
 - d. *Amendment to the Floor Space Ratio Map for 11-21 Monaro Avenue, Kingsgrove to include a floor space ratio of 0.55:1 within Area 1;*
 - e. *Amendment to the Lot Size for Dual Occupancy Development Map for 11-21 Monaro Avenue, Kingsgrove to include a minimum lot size of 650sqm;*
 - f. *Amendment to the Height of Buildings Map for 33 Dora Street, Hurstville from 15 metres to 30 metres;*
 - g. *Amendment to the Floor Space Ratio Map for 360-362 Forest Road and 34 MacMahon Street, Hurstville from 3.5:1 to 6:1;*
 - h. *Amendment to the Floor Space Ratio Map for 12-16 and 26 Princes Highway, 60B Gray Street and 5 Rocky Point Road, Kogarah from no FSR to 2:1;*
 - i. *Amendment to the Lot Size for Dual Occupancy Development Map for 333-339 and 357-365 Stoney Creek Road, Kingsgrove from a 650sqm minimum lot size for dual occupancy development to no minimum lot size;*
 - j. *Amendment to the Lot Size Map for 2-16 Lime Kiln Road and 1041-1041C Forest Road, Lugarno from a 700sqm minimum lot size to no minimum lot size;*
 - k. *Amendment to the Lot Size for Dual Occupancy Development Map for 2-16 Lime Kiln Road and 1041-1041C Forest Road, Lugarno from a 1000sqm minimum lot size for dual occupancy development to no minimum lot size;*
 - l. *Amendment to the Lot Size Map for 29A Jacques Avenue, Peakhurst from an 800sqm minimum lot size to no minimum lot size;*
 - m. *Amendment to the Lot Size for Dual Occupancy Development Map for 29A Jacques Avenue, Peakhurst from a 650sqm minimum lot size for dual occupancy development to no minimum lot size;*
 - n. *Amendment to the Floor Space Ratio Map for 29A Jacques Avenue, Peakhurst from 0.7:1 to no maximum floor space ratio;*

Scenic Protection Area (FSPA) boundaries was not due to draft Georges River Local Environmental Plan 2020's recommendation being unreasonable or unfounded, but rather the Panel's ultimate interpretation that the FSPA objectives which had broadened and which was a compelling factor to require a more comprehensive assessment of the landscape, vegetation and fauna habitats to address the broader objectives of FSPA in any future review of the area's boundaries.





Appendix J Bore Hole Logs

PROJECT NUMBER 60571				DRILLING COMPANY Terratest				EASTING 327,495.55			
PROJECT NAME St George Hospital Stage 3 DSI				DRILLING DATE 31-May-21				NORTHING 6,239,958.86			
CLIENT HI				DRILL RIG N/A				ELEVATION N/A			
PERMIT NO. N/A				DRILLING METHOD Push Tube / Solid Flight Aug				COORD SYS GDA94_MGA_zone_54			
ADDRESS Gray Street, Kogarah NSW				TOTAL DEPTH 7.1 m bgl				COORD SOURCE			
				DIAMETER 50 mm				LOGGED BY CL			
COMPLETION Roadbox				CASING Class 18 PVC - 50mm				SCREEN INTERVAL 4.1 - 7.1 m bgl			
COMMENTS											
Drilling Method	Water (m bgl)	Well Details	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations	
PT			0.2		Asphalt	Asphalt		BH01_0.0-0.1 (ASB)	1	20L AQ completed. No ACM, odour or staining observed.	
			0.4		Fill	Clayey sand, brown, heterogeneous, medium sand, medium dense, dry with inclusions of igneous gravel and decomposed wood.		BH01_0.2-0.3 (PFAS)		No ACM, odour or staining observed.	
			0.6					BH01_0.4-0.5		No ACM, odour or staining observed.	
			0.8		Fill	Sandy clay, brown, heterogeneous, dry, soft-firm, high plasticity with inclusions of gravel.				No ACM, odour or staining observed.	
			1		CH	Clay, light brown-grey, homogeneous, dry, high plasticity, firm with inclusions of sandstone gravel.		BH01 0.8-0.9		No ACM, odour or staining observed.	
			1.2					BH01 0.9-1.0		No ACM, odour or staining observed.	
			1.4		CH	Clay, light brown-grey, homogeneous, dry, high plasticity, firm with inclusions of sandstone gravel.				No ACM, odour or staining observed.	
			1.6					BH01_1.1-1.2		No ACM, odour or staining observed.	
			1.8					BH01 1.2-1.3		No ACM, odour or staining observed.	
			2		Shale	Shale, grey, weathered.				End of hole at 1.3 m bgs - program depth.	
SFA			2.2								
			2.4								
			2.6								
			2.8								
			3		CH-SC	Sandy clay, brown, homogeneous.					
			3.2								
			3.4								
			3.6								
			3.8								
			4								
		4.2									
		4.4									
		4.6									
		4.8									

Drilling Method	Water (m bgl)	Well Details	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
			5.2							
			5.4							
			5.6		Sandstone	Sandstone.				
			5.8							
			6							
			6.2							
			6.4							
			6.6							
			6.8							
			7							
			7.2			Termination Depth at: 7.10 m.				
			7.4							
			7.6							
			7.8							
			8							
			8.2							
			8.4							
			8.6							
			8.8							
			9							
			9.2							
			9.4							
			9.6							
			9.8							
			10							
			10.2							
			10.4							
			10.6							
			10.8							

PROJECT NUMBER 60571	DRILLING COMPANY Terratest	EASTING 327,488.21
PROJECT NAME St George Hospital Stage 3 DSI	DRILLING DATE 01-Jun-21	NORTHING 6,239,960.56
CLIENT HI	DRILL RIG N/A	COORD SYS GDA94_MGA_zone_54
ADDRESS Gray Street, Kogarah NSW	DRILLING METHOD Push Tube	COORD SOURCE
	DIAMETER 50 mm	LOGGED BY CL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.1		Asphalt	Asphalt		BH02_0.0-0.8 (ASB)	1	20L AQ completed. No ACM, odour or staining observed.
		0.2		Fill	Gravelly sand, brown, heterogeneous, loose, dry with inclusions of glass.		BH02 0.1-0.2		No ACM, odour or staining observed.
		0.3		Fill			Clayey sand, grey-brown, heterogeneous, loose, dry with inclusions of gravel.		BH02_0.2-0.3
		0.4		CH	Clay, red/grey/light brown mottling, homogeneous, high plasticity, dry, firm with inclusions of sandstone gravel.		BH02_0.3-0.4 (PFAS)	No ACM, odour or staining observed.	
		0.5							
		0.6					BH02 0.5-0.6	No ACM, odour or staining observed.	
		0.7							
		0.8					BH02 0.7-0.8	No ACM, odour or staining observed.	
		0.9							
		1.0							
		1.1					BH02_1.1-1.2	No ACM, odour or staining observed.	
1.2									
		1.3			Termination Depth at: 1.20 m.			End of hole at 1.2 m bgs - program depth.	
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							




PROJECT NUMBER 60571	DRILLING COMPANY Terratest	EASTING 327,505.01
PROJECT NAME St George Hospital Stage 3 DSI	DRILLING DATE 31-May-21	NORTHING 6,239,955.64
CLIENT HI	DRILL RIG N/A	COORD SYS GDA94_MGA_zone_54
ADDRESS Gray Street, Kogarah NSW	DRILLING METHOD Push Tube	COORD SOURCE
	DIAMETER 50 mm	LOGGED BY CL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.1		Asphalt	Asphalt		BH03_0.0-0.1 (ASB)	1	20L AQ completed. No ACM, odour or staining observed.
		0.2		Fill	Clayey sand, dark brown-grey, heterogeneous, medium sand, medium dense, dry with inclusions of gravel.		BH03_0.1-0.3 (PFAS)		No ACM, odour or staining observed.
		0.3	BH03_0.3-0.4				No ACM, odour or staining observed.		
		0.4							
		0.5							
		0.6	BH03_0.6						
		0.7	Fill	Sandy clay, dark brown, heterogeneous, non-plastic, dry, form with inclusions of gravel.	BH03 0.6-0.7		No ACM, odour or staining observed.		
		0.8							
		0.9			BH03 0.9-1.0		No ACM, odour or staining observed.		
		1							
		1.1	CH	Clay, brown/orange mottling, homogeneous, high plasticity, firm, dry.	BH03 1.0-1.1		No ACM, odour or staining observed.		
		1.2			BH03 1.1-1.2		No ACM, odour or staining observed.		
		1.3							
		1.4			Termination Depth at: 1.30 m.			End of hole at 1.3 m bgs - program depth.	
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							





PROJECT NUMBER 60571	DRILLING COMPANY Terratest	EASTING 327,492.19
PROJECT NAME St George Hospital Stage 3 DSI	DRILLING DATE 01-Jun-21	NORTHING 6,240,005.35
CLIENT HI	DRILL RIG N/A	COORD SYS GDA94_MGA_zone_54
ADDRESS Gray Street, Kogarah NSW	DRILLING METHOD Push Tube	COORD SOURCE
	DIAMETER 50 mm	LOGGED BY CL




COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.1		Concrete	Concrete		BH04_0.0-0.6 (ASB)	1	20L AQ completed. No ACM, odour or staining observed.
		0.2					BH04_0.2-0.3		No ACM, odour or staining observed.
		0.3		Fill	Gravelly sand, brown, heterogeneous, loose, dry with inclusions of gravel.				
		0.4					BH04 0.4-0.5		No ACM, odour or staining observed.
		0.5							
		0.6		CH	Clay, red/grey/light brown mottling, homogeneous, high plasticity, dry, firm, with inclusions of sandstone gravel.				
		0.7					BH04_0.7-0.8		No ACM, odour or staining observed.
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
1.6			End of hole at 1.6 m bgs - program depth.						
		1.7							
		1.8							
		1.9							

PROJECT NUMBER 60571	DRILLING COMPANY Terratest	EASTING 327,541.84
PROJECT NAME St George Hospital Stage 3 DSI	DRILLING DATE 01-Jun-21	NORTHING 6,240,018.75
CLIENT HI	DRILL RIG N/A	COORD SYS GDA94_MGA_zone_54
ADDRESS Gray Street, Kogarah NSW	DRILLING METHOD Push Tube	COORD SOURCE
	DIAMETER 50 mm	LOGGED BY CL

COMMENTS



Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations				
PT				Asphalt	Asphalt		BH05_0.0-0.5 (ASB)	1	20L AQ completed. No ACM, odour or staining observed.				
		0.1		Fill	Gravelly sand, brown, heterogeneous, dry, loose with inclusions of plastic and glass.								
		0.2											
		0.3											
		0.4									BH05 0.3-0.4		No ACM, odour or staining observed.
		0.5	BH05_0.4-0.5		No ACM, odour or staining observed.								
		0.6		CH	Clay, red/orange/light brown mottling, homogeneous, stiff, high plasticity, dry								
		0.7											
		0.8											
		0.9											
		1									BH05_0.9-1.0		No ACM, odour or staining observed.
		1.1											
		1.2								End of hole at 1.2 m bgs - program depth.			
							Termination Depth at: 1.20 m.						

PROJECT NUMBER 60571				DRILLING COMPANY Terratest				EASTING 327,526.44							
PROJECT NAME St George Hospital Stage 3 DSI				DRILLING DATE 31-May-21				NORTHING 6,240,029.99							
CLIENT HI				DRILL RIG N/A				ELEVATION N/A							
PERMIT NO. N/A				DRILLING METHOD Push Tube / Solid Flight Aug				COORD SYS GDA94_MGA_zone_54							
ADDRESS Gray Street, Kogarah NSW				TOTAL DEPTH 8 m bgl				COORD SOURCE							
				DIAMETER 50 mm				LOGGED BY CL							
COMPLETION Roadbox								CASING Class 18 PVC - 50mm				SCREEN INTERVAL 5 - 8 m bgl			
COMMENTS															
Drilling Method	Water (m bgl)	Well Details	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations					
PT			0.2		Asphalt	Asphalt		BH06_0.0-0.5 (ASB)	1	20L AQ completed. No ACM, odour or staining observed.					
			0.4		Fill	Gravelly sand, dark brown, heterogeneous, poorly graded, dry, loose with inclusions of plastic and gravel.		BH06_0.2-0.3		No ACM, odour or staining observed.					
			0.6		CH	Clay, red/grey/brown mottling, homogeneous, dry, stiff, medium plasticity with inclusions of sandstone gravel.		BH06 0.5-0.6	No ACM, odour or staining observed.						
			0.8					BH06 0.6-0.7	No ACM, odour or staining observed.						
1.0	BH06 0.7-0.8	No ACM, odour or staining observed.													
SFA			1.2		CH-SC	Sandy clay, brown, homogeneous.									
			1.4												
			1.6												
			1.8												
			2.0												
			2.2												
			2.4												
			2.6												
			2.8												
			3.0												
			3.2												
			3.4												
			3.6												
			3.8												
			4.0												
			4.2												
			4.4												
			4.6												
4.8															

Drilling Method	Water (m bgl)	Well Details	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
			5.2 5.4 5.6 5.8 6 6.2 6.4 6.6 6.8 7 7.2 7.4 7.6 7.8 8							End of hole at 8.0 m bgs - program depth.
			8 8.2 8.4 8.6 8.8 9 9.2 9.4 9.6 9.8 10 10.2 10.4 10.6 10.8			Termination Depth at: 8.00 m.				




PROJECT NUMBER 60571	DRILLING COMPANY Terratest	EASTING 327,559.2
PROJECT NAME St George Hospital Stage 3 DSI	DRILLING DATE 01-Jun-21	NORTHING 6,240,038.88
CLIENT HI	DRILL RIG N/A	COORD SYS GDA94_MGA_zone_54
ADDRESS Gray Street, Kogarah NSW	DRILLING METHOD Push Tube	COORD SOURCE
	DIAMETER 50 mm	LOGGED BY CL







COMMENTS

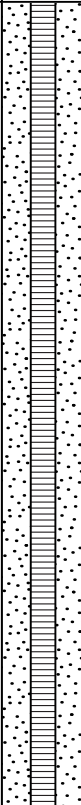
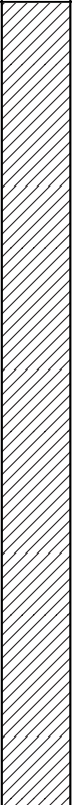
Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.1		Asphalt	Asphalt		BH07 0.0-0.5	1	20L AQ completed. No ACM, odour or staining observed.
		0.2		Fill	Gravelly sand, brown, heterogeneous, loose, dry.		BH07_0.2-0.3		No ACM, odour or staining observed.
		0.3							
		0.4							
		0.5		CH	Clay, light brown/red/orange mottling, homogeneous, stiff, high plasticity, dry with inclusions of sandstone gravel.		BH07_0.5-0.6	No ACM, odour or staining observed.	
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
1.5		Termination Depth at: 1.50 m.					End of hole at 1.5 m bgs - program depth.		
	1.6								
	1.7								
	1.8								
	1.9								

PROJECT NUMBER 60571	DRILLING COMPANY Terratest	EASTING 327,562.8
PROJECT NAME St George Hospital Stage 3 DSI	DRILLING DATE 31-May-21	NORTHING 6,240,055.31
CLIENT HI	DRILL RIG N/A	COORD SYS GDA94_MGA_zone_54
ADDRESS Gray Street, Kogarah NSW	DRILLING METHOD Push Tube	COORD SOURCE
	DIAMETER 50 mm	LOGGED BY CL

COMMENTS


Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations		
PT		0.1		Asphalt	Asphalt		BH08_0.0-0.3 (ASB)	1	20L AQ completed. No ACM, odour or staining observed.		
		0.2		Fill	Gravelly sand, brown, heterogeneous, dry, poorly graded, loose with inclusions of gravel.		BH08_0.2-0.3		No ACM, odour or staining observed.		
		0.3		CH	Clay, red/grey/brown mottling, homogeneous, dry, stiff, medium plasticity with inclusions of sandstone gravel.						
		0.4									
		0.5									
		0.6									
		0.7									
		0.8									
		0.9									
		1									
		1.1									
		1.2									
		1.3									End of hole at 1.3 m bgs - program depth.
		1.4									
		1.5									
1.6											
1.7											
1.8											
1.9											
		1.30		Termination Depth at: 1.30 m.							

PROJECT NUMBER 60571			DRILLING COMPANY Terratest			EASTING 327,574.95				
PROJECT NAME St George Hospital Stage 3 DSI			DRILLING DATE 01-Jun-21			NORTHING 6,240,041.53				
CLIENT HI			DRILL RIG N/A			ELEVATION N/A				
PERMIT NO. N/A			DRILLING METHOD Push Tube / Solid Flight Aug			COORD SYS GDA94_MGA_zone_54				
ADDRESS Gray Street, Kogarah NSW			TOTAL DEPTH 7.7 m bgl			COORD SOURCE				
			DIAMETER 50 mm			LOGGED BY CL				
COMPLETION Roadbox			CASING Class 18 PVC - 50mm			SCREEN INTERVAL 4.7 - 7.7 m bgl				
COMMENTS										
Drilling Method	Water (m bgl)	Well Details	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT					Asphalt	Asphalt		BH09_0.0-0.5 (ASB)	1	20L AQ completed. No ACM, odour or staining observed.
			0.2		Fill	Clayey sand, brown, heterogeneous, medium sand, poorly graded, dry with inclusions of gravel.		BH09_0.2-0.3		No ACM, odour or staining observed.
			0.4		CH	Clay, red/grey/brown mottling, homogeneous, dry, stiff, medium plasticity with inclusions of sandstone gravel.				No ACM, odour or staining observed.
			0.6					BH09 0.5-0.6		No ACM, odour or staining observed.
SFA			0.8		CH	Clay, red/grey/brown mottling, homogeneous, dry, stiff, medium plasticity with inclusions of sandstone gravel.				End of hole at 1.3 m bgs - program depth.
			1							
			1.2							
			1.4							
			1.6							
			1.8							
			2							
			2.2							
			2.4							
			2.6							
			2.8							
			3							
			3.2							
			3.4							
			3.6							
			3.8							
4										
4.2										
4.4										
4.6										
4.8										

Drilling Method	Water (m bgl)	Well Details	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
			5.2 5.4 5.6 5.8 6 6.2 6.4 6.6 6.8 7 7.2 7.4 7.6							
			7.8 8 8.2 8.4 8.6 8.8 9 9.2 9.4 9.6 9.8 10 10.2 10.4 10.6 10.8			Termination Depth at: 7.70 m.				


PROJECT NUMBER 60571	DRILLING COMPANY	EASTING 327,605.15
PROJECT NAME St George Hospital Stage 3 DSI	DRILLING DATE 01-Jun-21	NORTHING 6,240,069.71
CLIENT HI	DRILL RIG N/A	COORD SYS GDA94_MGA_zone_54
ADDRESS Gray Street, Kogarah NSW	DRILLING METHOD Hand Auger	COORD SOURCE
	DIAMETER 50 mm	LOGGED BY CL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Silty sand, dak brown, heterogeneous, loose, dry with inclusions of rootlets.		BH10_0.0-1.0 (ASB)	1	20L AQ completed. No ACM, odour or staining observed.
		0.2		Fill	Sandy clay, brown, heterogeneous, soft, medium plasticity, dry with inclusions of gravel.		BH10 0.3-0.4		No ACM, odour or staining observed.
		0.3							
		0.4		Fill	Clay, brown/red/orange, soft, high plasticity, dry with inclusions of sandstone gravel.		BH10_0.5-0.6		No ACM, odour or staining observed.
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1					BH10_1.0-1.1		No ACM, odour or staining observed.
		1.1			Termination Depth at: 1.10 m.				End of hole at 1.1 m bgs - refusal.
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

PROJECT NUMBER 60571	DRILLING COMPANY	EASTING 327,613.05
PROJECT NAME St George Hospital Stage 3 DSI	DRILLING DATE 01-Jun-21	NORTHING 6,240,058.24
CLIENT HI	DRILL RIG N/A	COORD SYS GDA94_MGA_zone_54
ADDRESS Gray Street, Kogarah NSW	DRILLING METHOD Hand Auger	COORD SOURCE
	DIAMETER 50 mm	LOGGED BY CL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations	
HA		0.1		Fill	Silty sand, dark brown, heterogeneous, dry, loose with inclusions of rootlets.		BH11_0.0-0.12 (ASB)	1	20L AQ completed. No ACM, odour or staining observed.	
		0.2								
		0.3					BH11_0.3-0.4		No ACM, odour or staining observed.	
		0.4		Fill	Clay, brown/orange, heterogeneous, dry, high plasticity, soft with inclusions of glass and gravel.					
		0.5					BH11_0.5-0.69		No ACM, odour or staining observed.	
		0.6								
		0.7								
		0.8								
		0.9								
		1								
		1.1					BH11 1.0-1.1		No ACM, odour or staining observed.	
		1.2							End of hole at 1.2 m bgs - refusal.	
		1.3			Termination Depth at: 1.20 m.					
		1.4								
		1.5								
		1.6								
		1.7								
		1.8								
		1.9								

Appendix K Calibration and Decontamination Sheets

Field Equipment Calibration and Decontamination

PROJECT NAME: St George Hospital DSI	PROJECT NO: 60571
FIELDWORK DATES: 31/5, 1/6	SAMPLERS: CL, SG
TYPE OF INVESTIGATION: DSI	PROJECT MANAGER: SG

CALIBRATION SUMMARY

EQUIPMENT: PID
CALIBRATION STANDARD:

DATE	TIME	READING (ppm)	COMMENTS
31/5/2021	08:00	0	zero cal
	08:01	100	100 ppm isobutylene
	08:02	100.1	bump test
1/6/2021	07:45	0	zero cal
	07:46	100	100 ppm isobutylene
	07:47	100.2	bump test

DECONTAMINATION SUMMARY

EQUIPMENT:			
1	Was the equipment decontaminated appropriately prior to sampling at each location?	Y	N (NA)
2	Was excess soil removed by scraping, brushing or wiping with disposable towels?	Y	N (NA)
3	Was the equipment contaminated with grease, tar or similar material?	Y	N (NA)
	If so, was the equipment steam cleaned or rinsed with pesticide-grade acetone:hexane?	Y	N (NA)
4	Was phosphate-free detergent used to wash the equipment?	Y	N (NA)
5	Was the equipment rinsed with clean water?	Y	N (NA)
6	Was the equipment then rinsed with deionised water?	Y	N (NA)
7	Were all sample containers cleaned and acid or solvent washed prior to sample collection?	(Y)	N NA
WERE ANY ADDITIONAL DECONTAMINATION MEASURES REQUIRED? PROVIDE DETAILS			
New pair of nitrile gloves used for collection of each sample.			

Air-Met Scientific Pty Ltd
1300 137 067

Instrument **Interface Meter (30M)**
Serial No. **348882**

Item	Test	Pass	Comments
Battery	Compartment	✓	
	Capacity	✓	
Probe	Cleaned/Decon.	✓	
	Operation	✓	
Connectors	Condition	✓	
		✓	
Tape Check	Cleaned	✓	
	Checked for cuts	✓	
Instrument Test	At surface level	✓	

Certificate of Calibration

This is to certify that the above instrument has been cleaned and tested.

Calibrated by:

Elyce Ireland

Calibration date: 8/06/2021

Next calibration due: 7/08/2021

Multi Parameter Water Meter



Instrument **YSI Quatro Pro Plus**
 Serial No. **16G104247**

Air-Met Scientific Pty Ltd
 1300 137 067

Item	Test	Pass	Comments
Battery	Charge Condition	✓	
	Fuses	✓	
	Capacity	✓	
Switch/keypad Display	Operation	✓	
	Intensity	✓	
	Operation (segments)	✓	
Grill Filter	Condition	✓	
	Seal	✓	
PCB	Condition	✓	
Connectors	Condition	✓	
Sensor	1. pH	✓	
	2. mV	✓	
	3. EC	✓	
	4. D.O	✓	
	5. Temp	✓	
Alarms	Beeper		
	Settings		
Software	Version		
Data logger	Operation		
Download	Operation		
Other tests:			

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Sensor	Serial no	Standard Solutions	Certified	Solution Bottle Number	Instrument Reading
1. pH 7.00		pH 7.00		364212	pH 6.91
2. pH 4.00		pH 4.00		366070	pH 3.93
3. pH 10.00		pH 10.00		363695	pH 9.68
3. mV		236.2mV		365755/364219	235.4mV
4. EC		2.76mS		350510	2.75mS
5. D.O		0.00ppm		10959	0.00ppm
6. Temp		19.6°C		MultiTherm	19.2°C

Calibrated by:

Chris Edwards

Calibration date:

9/06/2021

Next calibration due:

9/07/2021

Appendix L Laboratory Certificates and COC Documentation

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



NATA Accredited
Accreditation Number 1261
Site Number 1254

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

Attention: **Sahani Gunatunge**

Report **800730-S**
Project name **ST GEORGE HOSP**
Project ID **60571**
Received Date **Jun 03, 2021**

Client Sample ID			BH02_0.2-0.3	BH02_1.1-1.2	BH11_0.3-0.4	BH11_0.5-0.69
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Jn10346	M21-Jn10347	M21-Jn10348	M21-Jn10349
Date Sampled			Jun 01, 2021	Jun 01, 2021	Jun 01, 2021	Jun 01, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	69	64	93	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			BH02_0.2-0.3	BH02_1.1-1.2	BH11_0.3-0.4	BH11_0.5-0.69
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Jn10346	M21-Jn10347	M21-Jn10348	M21-Jn10349
Date Sampled			Jun 01, 2021	Jun 01, 2021	Jun 01, 2021	Jun 01, 2021
Test/Reference	LOR	Unit				
Volatile Organics						
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
Total MAH*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
4-Bromofluorobenzene (surr.)	1	%	69	-	-	-
Toluene-d8 (surr.)	1	%	61	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	-
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	-
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	-
TRH C15-C28	50	mg/kg	120	< 50	< 50	-
TRH C29-C36	50	mg/kg	750	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	870	< 50	< 50	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-

Client Sample ID			BH02_0.2-0.3	BH02_1.1-1.2	BH11_0.3-0.4	BH11_0.5-0.69
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Jn10346	M21-Jn10347	M21-Jn10348	M21-Jn10349
Date Sampled			Jun 01, 2021	Jun 01, 2021	Jun 01, 2021	Jun 01, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	86	61	80	-
p-Terphenyl-d14 (surr.)	1	%	103	122	88	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Toxaphene	0.1	mg/kg	< 0.1	-	< 0.1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Dibutylchloroendate (surr.)	1	%	104	-	78	-
Tetrachloro-m-xylene (surr.)	1	%	86	-	96	-

Client Sample ID			BH02_0.2-0.3	BH02_1.1-1.2	BH11_0.3-0.4	BH11_0.5-0.69
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Jn10346	M21-Jn10347	M21-Jn10348	M21-Jn10349
Date Sampled			Jun 01, 2021	Jun 01, 2021	Jun 01, 2021	Jun 01, 2021
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Comments			G01			
Aroclor-1016	0.1	mg/kg	< 0.2	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	< 0.2	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	< 0.2	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	< 0.2	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	< 0.2	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	< 0.2	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	< 0.2	-	< 0.1	-
Total PCB*	0.1	mg/kg	< 0.2	-	< 0.1	-
Dibutylchloredate (surr.)	1	%	104	-	78	-
Tetrachloro-m-xylene (surr.)	1	%	86	-	96	-
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	-	-	-
2,4-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
2,4,5-Trichlorophenol	1	mg/kg	< 1	-	-	-
2,4,6-Trichlorophenol	1	mg/kg	< 1	-	-	-
2,6-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
4-Chloro-3-methylphenol	1	mg/kg	< 1	-	-	-
Pentachlorophenol	1	mg/kg	< 1	-	-	-
Tetrachlorophenols - Total	10	mg/kg	< 10	-	-	-
Total Halogenated Phenol*	1	mg/kg	< 1	-	-	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	20	mg/kg	< 20	-	-	-
2-Methyl-4,6-dinitrophenol	5	mg/kg	< 5	-	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	-	-	-
2-Nitrophenol	1.0	mg/kg	< 1	-	-	-
2,4-Dimethylphenol	0.5	mg/kg	< 0.5	-	-	-
2,4-Dinitrophenol	5	mg/kg	< 5	-	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	-	-	-
4-Nitrophenol	5	mg/kg	< 5	-	-	-
Dinoseb	20	mg/kg	< 20	-	-	-
Phenol	0.5	mg/kg	< 0.5	-	-	-
Total Non-Halogenated Phenol*	20	mg/kg	< 20	-	-	-
Phenol-d6 (surr.)	1	%	45	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	-
TRH >C16-C34	100	mg/kg	530	< 100	< 100	-
TRH >C34-C40	100	mg/kg	660	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	1190	< 100	< 100	-
Heavy Metals						
Arsenic	2	mg/kg	3.5	29	29	20
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	20	25	110	75
Copper	5	mg/kg	34	< 5	5.2	< 5
Lead	5	mg/kg	11	32	49	33
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	16	< 5	< 5	< 5
Zinc	5	mg/kg	51	< 5	20	40
% Moisture	1	%	7.6	13	12	13

Client Sample ID			BH08_0.0-0.1 Soil M21-Jn10350 May 31, 2021	BH08_0.2-0.3 Soil M21-Jn10351 May 31, 2021	BH04_0.2-0.3 Soil M21-Jn10352 Jun 01, 2021	BH04_0.7-0.8 Soil M21-Jn10353 Jun 01, 2021
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	< 20	< 20
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	77	75	79
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	-	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20	< 20	< 20
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C10-C14	20	mg/kg	-	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	-	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	-	60	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	-	60	< 50	< 50
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	105	117	86
p-Terphenyl-d14 (surr.)	1	%	-	99	109	110
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	-
4,4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	-
4,4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	-
4,4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	-
a-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	-

Client Sample ID			BH08_0.0-0.1	BH08_0.2-0.3	BH04_0.2-0.3	BH04_0.7-0.8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Jn10350	M21-Jn10351	M21-Jn10352	M21-Jn10353
Date Sampled			May 31, 2021	May 31, 2021	Jun 01, 2021	Jun 01, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
b-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
d-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	-
Methoxychlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Toxaphene	0.1	mg/kg	-	< 0.1	< 0.1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Dibutylchloroendate (surr.)	1	%	-	73	79	-
Tetrachloro-m-xylene (surr.)	1	%	-	74	85	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	< 0.1	-
Total PCB*	0.1	mg/kg	-	< 0.1	< 0.1	-
Dibutylchloroendate (surr.)	1	%	-	73	79	-
Tetrachloro-m-xylene (surr.)	1	%	-	74	85	-
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	-	< 0.5	-
2,4-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	-
2,4,5-Trichlorophenol	1	mg/kg	-	-	< 1	-
2,4,6-Trichlorophenol	1	mg/kg	-	-	< 1	-
2,6-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	-
4-Chloro-3-methylphenol	1	mg/kg	-	-	< 1	-
Pentachlorophenol	1	mg/kg	-	-	< 1	-
Tetrachlorophenols - Total	10	mg/kg	-	-	< 10	-
Total Halogenated Phenol*	1	mg/kg	-	-	< 1	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	20	mg/kg	-	-	< 20	-
2-Methyl-4,6-dinitrophenol	5	mg/kg	-	-	< 5	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	< 0.2	-
2-Nitrophenol	1.0	mg/kg	-	-	< 1	-
2,4-Dimethylphenol	0.5	mg/kg	-	-	< 0.5	-
2,4-Dinitrophenol	5	mg/kg	-	-	< 5	-

Client Sample ID			BH08_0.0-0.1	BH08_0.2-0.3	BH04_0.2-0.3	BH04_0.7-0.8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Jn10350	M21-Jn10351	M21-Jn10352	M21-Jn10353
Date Sampled			May 31, 2021	May 31, 2021	Jun 01, 2021	Jun 01, 2021
Test/Reference	LOR	Unit				
Phenols (non-Halogenated)						
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	< 0.4	-
4-Nitrophenol	5	mg/kg	-	-	< 5	-
Dinoseb	20	mg/kg	-	-	< 20	-
Phenol	0.5	mg/kg	-	-	< 0.5	-
Total Non-Halogenated Phenol*	20	mg/kg	-	-	< 20	-
Phenol-d6 (surr.)	1	%	-	-	67	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	-	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	-	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	-	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	< 100
Heavy Metals						
Arsenic	2	mg/kg	3.6	4.4	2.7	12
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	20	22	11	33
Copper	5	mg/kg	22	21	25	< 5
Iron	20	mg/kg	-	18000	-	-
Lead	5	mg/kg	20	28	21	9.8
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.1
Nickel	5	mg/kg	9.0	8.8	6.7	< 5
Silver	2	mg/kg	-	-	< 2	-
Zinc	5	mg/kg	50	51	48	< 5
% Moisture	1	%	7.4	11	6.8	9.0
% Clay	1	%	-	3.0	-	-
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	410	-	-
pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.)	0.1	pH Units	-	11	-	-
Total Organic Carbon	0.1	%	-	< 0.1	-	-
Cyanide (total)	5	mg/kg	-	-	< 5	-
Heavy Metals						
Iron (%)	0.01	%	-	1.8	-	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	100	-	-

Client Sample ID			BH10_0.5-0.6	BH10_1.0-1.1	BH07_0.2-0.3	BH07_0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Jn10354	M21-Jn10355	M21-Jn10358	M21-Jn10359
Date Sampled			Jun 01, 2021	Jun 01, 2021	May 31, 2021	May 31, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-

Client Sample ID			BH10_0.5-0.6	BH10_1.0-1.1	BH07_0.2-0.3	BH07_0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Jn10354	M21-Jn10355	M21-Jn10358	M21-Jn10359
Date Sampled			Jun 01, 2021	Jun 01, 2021	May 31, 2021	May 31, 2021
Test/Reference	LOR	Unit				
BTEX						
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	100	-	90	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	< 0.5	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	< 50	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	< 20	-
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C10-C14	20	mg/kg	< 20	-	< 20	-
TRH C15-C28	50	mg/kg	< 50	-	< 50	-
TRH C29-C36	50	mg/kg	< 50	-	69	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	69	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	-
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	126	-	108	-
p-Terphenyl-d14 (surr.)	1	%	119	-	107	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	-
4,4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	-
4,4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	-
4,4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	-

Client Sample ID			BH10_0.5-0.6	BH10_1.0-1.1	BH07_0.2-0.3	BH07_0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Jn10354	M21-Jn10355	M21-Jn10358	M21-Jn10359
Date Sampled			Jun 01, 2021	Jun 01, 2021	May 31, 2021	May 31, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Toxaphene	0.1	mg/kg	< 0.1	-	< 0.1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Dibutylchloroendate (surr.)	1	%	70	-	72	-
Tetrachloro-m-xylene (surr.)	1	%	87	-	79	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	< 0.1	-
Total PCB*	0.1	mg/kg	< 0.1	-	< 0.1	-
Dibutylchloroendate (surr.)	1	%	70	-	72	-
Tetrachloro-m-xylene (surr.)	1	%	87	-	79	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	-	< 50	-
TRH >C16-C34	100	mg/kg	< 100	-	< 100	-
TRH >C34-C40	100	mg/kg	< 100	-	100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	100	-
Heavy Metals						
Arsenic	2	mg/kg	26	< 2	< 2	18
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	110	21	11	78
Copper	5	mg/kg	< 5	< 5	24	< 5
Lead	5	mg/kg	25	11	15	33
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	5.7	< 5
Zinc	5	mg/kg	6.5	< 5	35	12
% Moisture	1	%	11	21	6.4	19

Client Sample ID			BH05_0.4-0.5	BH05_0.9-1.0	BH03_0.3-0.4	BH03_0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Jn10360	M21-Jn10361	M21-Jn10362	M21-Jn10363
Date Sampled			Jun 01, 2021	Jun 01, 2021	May 31, 2021	May 31, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	< 20
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	100	-	74	92
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-

Client Sample ID			BH05_0.4-0.5	BH05_0.9-1.0	BH03_0.3-0.4	BH03_0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Jn10360	M21-Jn10361	M21-Jn10362	M21-Jn10363
Date Sampled			Jun 01, 2021	Jun 01, 2021	May 31, 2021	May 31, 2021
Test/Reference	LOR	Unit				
Volatile Organics						
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	-	74	-
Toluene-d8 (surr.)	1	%	-	-	69	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	-	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	< 20	< 20
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C10-C14	20	mg/kg	< 20	-	< 20	< 20
TRH C15-C28	50	mg/kg	55	-	87	< 50
TRH C29-C36	50	mg/kg	96	-	200	< 50
TRH C10-C36 (Total)	50	mg/kg	151	-	287	< 50
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.7	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	-	0.6	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	0.7	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	1.0	0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	0.8	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	1.0	< 0.5

Client Sample ID			BH05_0.4-0.5	BH05_0.9-1.0	BH03_0.3-0.4	BH03_0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Jn10360	M21-Jn10361	M21-Jn10362	M21-Jn10363
Date Sampled			Jun 01, 2021	Jun 01, 2021	May 31, 2021	May 31, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Total PAH*	0.5	mg/kg	< 0.5	-	4.6	0.5
2-Fluorobiphenyl (surr.)	1	%	95	-	102	90
p-Terphenyl-d14 (surr.)	1	%	98	-	99	111
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	-
4,4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	-
4,4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	-
4,4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	0.09	-	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Dieldrin	0.05	mg/kg	0.06	-	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Toxaphene	0.1	mg/kg	< 0.1	-	< 0.1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	0.15	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	0.15	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Dibutylchloroendate (surr.)	1	%	73	-	72	-
Tetrachloro-m-xylene (surr.)	1	%	71	-	72	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	< 0.1	-
Total PCB*	0.1	mg/kg	< 0.1	-	< 0.1	-
Dibutylchloroendate (surr.)	1	%	73	-	72	-
Tetrachloro-m-xylene (surr.)	1	%	71	-	72	-
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	-	< 0.5	-
2,4-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	-
2,4,5-Trichlorophenol	1	mg/kg	-	-	< 1	-
2,4,6-Trichlorophenol	1	mg/kg	-	-	< 1	-
2,6-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	-
4-Chloro-3-methylphenol	1	mg/kg	-	-	< 1	-

Client Sample ID			BH05_0.4-0.5	BH05_0.9-1.0	BH03_0.3-0.4	BH03_0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Jn10360	M21-Jn10361	M21-Jn10362	M21-Jn10363
Date Sampled			Jun 01, 2021	Jun 01, 2021	May 31, 2021	May 31, 2021
Test/Reference	LOR	Unit				
Phenols (Halogenated)						
Pentachlorophenol	1	mg/kg	-	-	< 1	-
Tetrachlorophenols - Total	10	mg/kg	-	-	< 10	-
Total Halogenated Phenol*	1	mg/kg	-	-	< 1	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	-	< 20	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	-	< 5	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	< 0.2	-
2-Nitrophenol	1.0	mg/kg	-	-	< 1	-
2.4-Dimethylphenol	0.5	mg/kg	-	-	< 0.5	-
2.4-Dinitrophenol	5	mg/kg	-	-	< 5	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	< 0.4	-
4-Nitrophenol	5	mg/kg	-	-	< 5	-
Dinoseb	20	mg/kg	-	-	< 20	-
Phenol	0.5	mg/kg	-	-	< 0.5	-
Total Non-Halogenated Phenol*	20	mg/kg	-	-	< 20	-
Phenol-d6 (surr.)	1	%	-	-	64	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	-	< 50	< 50
TRH >C16-C34	100	mg/kg	120	-	220	< 100
TRH >C34-C40	100	mg/kg	130	-	220	< 100
TRH >C10-C40 (total)*	100	mg/kg	250	-	440	< 100
Heavy Metals						
Arsenic	2	mg/kg	4.3	6.1	4.0	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	20	24	17	< 5
Copper	5	mg/kg	17	< 5	25	< 5
Lead	5	mg/kg	18	7.2	24	36
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	9.7	< 5	9.2	< 5
Zinc	5	mg/kg	40	< 5	62	11
% Moisture	1	%	11	13	17	12

Client Sample ID			BH09_0.2-0.3	BH01_0.4-0.5	BH01_1.1-1.2	BH06_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Jn10364	M21-Jn10365	M21-Jn10366	M21-Jn10367
Date Sampled			Jun 01, 2021	May 31, 2021	May 31, 2021	Jun 01, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	85	85	82	76

Client Sample ID			BH09_0.2-0.3	BH01_0.4-0.5	BH01_1.1-1.2	BH06_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Jn10364	M21-Jn10365	M21-Jn10366	M21-Jn10367
Date Sampled			Jun 01, 2021	May 31, 2021	May 31, 2021	Jun 01, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	190	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	110	< 50	< 50	75
TRH C10-C36 (Total)	50	mg/kg	300	< 50	< 50	75
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	108	119	84	113
p-Terphenyl-d14 (surr.)	1	%	105	119	107	113
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05

Client Sample ID			BH09_0.2-0.3	BH01_0.4-0.5	BH01_1.1-1.2	BH06_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Jn10364	M21-Jn10365	M21-Jn10366	M21-Jn10367
Date Sampled			Jun 01, 2021	May 31, 2021	May 31, 2021	Jun 01, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Toxaphene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	83	79	-	76
Tetrachloro-m-xylene (surr.)	1	%	76	87	-	84
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	83	79	-	76
Tetrachloro-m-xylene (surr.)	1	%	76	87	-	84
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	-	-	< 0.5
2,4-Dichlorophenol	0.5	mg/kg	-	-	-	< 0.5
2,4,5-Trichlorophenol	1	mg/kg	-	-	-	< 1
2,4,6-Trichlorophenol	1	mg/kg	-	-	-	< 1
2,6-Dichlorophenol	0.5	mg/kg	-	-	-	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	-	-	-	< 1
Pentachlorophenol	1	mg/kg	-	-	-	< 1
Tetrachlorophenols - Total	10	mg/kg	-	-	-	< 10
Total Halogenated Phenol*	1	mg/kg	-	-	-	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	20	mg/kg	-	-	-	< 20
2-Methyl-4,6-dinitrophenol	5	mg/kg	-	-	-	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	-	< 0.2
2-Nitrophenol	1.0	mg/kg	-	-	-	< 1
2,4-Dimethylphenol	0.5	mg/kg	-	-	-	< 0.5
2,4-Dinitrophenol	5	mg/kg	-	-	-	< 5
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	-	< 0.4
4-Nitrophenol	5	mg/kg	-	-	-	< 5
Dinoseb	20	mg/kg	-	-	-	< 20
Phenol	0.5	mg/kg	-	-	-	< 0.5
Total Non-Halogenated Phenol*	20	mg/kg	-	-	-	< 20
Phenol-d6 (surr.)	1	%	-	-	-	80
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	290	< 100	< 100	100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	290	< 100	< 100	100

Client Sample ID			BH09_0.2-0.3	BH01_0.4-0.5	BH01_1.1-1.2	BH06_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Jn10364	M21-Jn10365	M21-Jn10366	M21-Jn10367
Date Sampled			Jun 01, 2021	May 31, 2021	May 31, 2021	Jun 01, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	3.9	4.4	5.1	4.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	19	11	9.6	25
Copper	5	mg/kg	21	5.6	< 5	64
Iron	20	mg/kg	-	17000	-	-
Lead	5	mg/kg	28	15	16	33
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	9.9	8.7	< 5	12
Silver	2	mg/kg	-	-	-	< 2
Zinc	5	mg/kg	75	42	< 5	74
% Moisture	1	%	13	7.2	14	11
% Clay	1	%	-	2.0	-	-
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	95	-	-
pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.)	0.1	pH Units	-	9.6	-	-
Total Organic Carbon	0.1	%	-	0.4	-	-
Cyanide (total)	5	mg/kg	-	-	-	< 5
Heavy Metals						
Iron (%)	0.01	%	-	1.7	-	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	< 0.05	-	-

Client Sample ID			QA01	BH01_0.2-0.3 (PFAS)	BH02_0.3-0.4 (PFAS)	BH03_0.1-0.3 (PFAS)
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Jn10368	M21-Jn10381	M21-Jn10382	M21-Jn10383
Date Sampled			Jun 01, 2021	May 31, 2021	Jun 01, 2021	May 31, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	83	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	-	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	-	-
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	-

Client Sample ID			QA01	BH01 0.2-0.3 (PFAS)	BH02 0.3-0.4 (PFAS)	BH03 0.1-0.3 (PFAS)
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Jn10368	M21-Jn10381	M21-Jn10382	M21-Jn10383
Date Sampled			Jun 01, 2021	May 31, 2021	Jun 01, 2021	May 31, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	-
Acenaphthene	0.5	mg/kg	< 0.5	-	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	-
Anthracene	0.5	mg/kg	< 0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	-	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Chrysene	0.5	mg/kg	< 0.5	-	-	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	-	-
Fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Fluorene	0.5	mg/kg	< 0.5	-	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	-
Naphthalene	0.5	mg/kg	< 0.5	-	-	-
Phenanthrene	0.5	mg/kg	< 0.5	-	-	-
Pyrene	0.5	mg/kg	< 0.5	-	-	-
Total PAH*	0.5	mg/kg	< 0.5	-	-	-
2-Fluorobiphenyl (surr.)	1	%	110	-	-	-
p-Terphenyl-d14 (surr.)	1	%	107	-	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4,4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4,4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4,4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-BHC	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-BHC	0.05	mg/kg	< 0.05	-	-	-
d-BHC	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.05	mg/kg	< 0.05	-	-	-
Toxaphene	0.1	mg/kg	< 0.1	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchlorendate (surr.)	1	%	77	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	81	-	-	-

Client Sample ID			QA01	BH01 0.2-0.3 (PFAS)	BH02 0.3-0.4 (PFAS)	BH03 0.1-0.3 (PFAS)
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Jn10368	M21-Jn10381	M21-Jn10382	M21-Jn10383
Date Sampled			Jun 01, 2021	May 31, 2021	Jun 01, 2021	May 31, 2021
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	-	-
Total PCB*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchloroendate (surr.)	1	%	77	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	81	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	3.0	-	-	-
Cadmium	0.4	mg/kg	< 0.4	-	-	-
Chromium	5	mg/kg	15	-	-	-
Copper	5	mg/kg	16	-	-	-
Lead	5	mg/kg	25	-	-	-
Mercury	0.1	mg/kg	< 0.1	-	-	-
Nickel	5	mg/kg	9.3	-	-	-
Zinc	5	mg/kg	55	-	-	-
% Moisture	1	%	7.2	6.8	13	14
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTeDA) ^{N15}	5	ug/kg	-	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	-	81	82	80
13C5-PFPeA (surr.)	1	%	-	86	79	83
13C5-PFHxA (surr.)	1	%	-	91	93	91
13C4-PFHpA (surr.)	1	%	-	79	86	84
13C8-PFOA (surr.)	1	%	-	92	93	90
13C5-PFNA (surr.)	1	%	-	108	108	112
13C6-PFDA (surr.)	1	%	-	72	59	71
13C2-PFUnDA (surr.)	1	%	-	71	68	67
13C2-PFDoDA (surr.)	1	%	-	98	98	87
13C2-PFTeDA (surr.)	1	%	-	90	80	87

Client Sample ID			QA01	BH01 0.2-0.3 (PFAS)	BH02 0.3-0.4 (PFAS)	BH03 0.1-0.3 (PFAS)
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Jn10368	M21-Jn10381	M21-Jn10382	M21-Jn10383
Date Sampled			Jun 01, 2021	May 31, 2021	Jun 01, 2021	May 31, 2021
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	-	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	-	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	-	73	76	70
D3-N-MeFOSA (surr.)	1	%	-	96	95	103
D5-N-EtFOSA (surr.)	1	%	-	92	88	91
D7-N-MeFOSE (surr.)	1	%	-	89	87	82
D9-N-EtFOSE (surr.)	1	%	-	80	84	80
D5-N-EtFOSAA (surr.)	1	%	-	96	115	100
D3-N-MeFOSAA (surr.)	1	%	-	147	150	133
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	-	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	-	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	-	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	-	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	-	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	-	84	86	81
18O2-PFHxS (surr.)	1	%	-	73	72	72
13C8-PFOS (surr.)	1	%	-	51	62	62
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	-	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
13C2-4:2 FTS (surr.)	1	%	-	67	61	61
13C2-6:2 FTSA (surr.)	1	%	-	64	56	51
13C2-8:2 FTSA (surr.)	1	%	-	102	111	92
13C2-10:2 FTSA (surr.)	1	%	-	100	86	106
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	< 50	< 50	< 50

Client Sample ID			PF QA01
Sample Matrix			Soil
Eurofins Sample No.			M21-Jn10384
Date Sampled			Jun 01, 2021
Test/Reference	LOR	Unit	
% Moisture	1	%	7.1
Perfluoroalkyl carboxylic acids (PFCAs)			
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5
Perfluorotridecanoic acid (PFTeDA) ^{N15}	5	ug/kg	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5
13C4-PFBA (surr.)	1	%	80
13C5-PFPeA (surr.)	1	%	81
13C5-PFHxA (surr.)	1	%	91
13C4-PFHpA (surr.)	1	%	84
13C8-PFOA (surr.)	1	%	84
13C5-PFNA (surr.)	1	%	106
13C6-PFDA (surr.)	1	%	70
13C2-PFUnDA (surr.)	1	%	70
13C2-PFDoDA (surr.)	1	%	88
13C2-PFTeDA (surr.)	1	%	94
Perfluoroalkyl sulfonamido substances			
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10
13C8-FOSA (surr.)	1	%	71
D3-N-MeFOSA (surr.)	1	%	97
D5-N-EtFOSA (surr.)	1	%	90
D7-N-MeFOSE (surr.)	1	%	85
D9-N-EtFOSE (surr.)	1	%	78
D5-N-EtFOSAA (surr.)	1	%	105
D3-N-MeFOSAA (surr.)	1	%	134
Perfluoroalkyl sulfonic acids (PFSAs)			
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5

Client Sample ID			PF QA01
Sample Matrix			Soil
Eurofins Sample No.			M21-Jn10384
Date Sampled			Jun 01, 2021
Test/Reference	LOR	Unit	
Perfluoroalkyl sulfonic acids (PFASs)			
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5
13C3-PFBS (surr.)	1	%	79
18O2-PFHxS (surr.)	1	%	78
13C8-PFOS (surr.)	1	%	64
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5
13C2-4:2 FTS (surr.)	1	%	66
13C2-6:2 FTSA (surr.)	1	%	62
13C2-8:2 FTSA (surr.)	1	%	97
13C2-10:2 FTSA (surr.)	1	%	97
PFASs Summations			
Sum (PFHxS + PFOS)*	5	ug/kg	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
JBS&G Suite 2			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Jun 07, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Jun 07, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 07, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Melbourne	Jun 07, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Melbourne	Jun 07, 2021	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Polychlorinated Biphenyls	Melbourne	Jun 07, 2021	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 07, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Metals M8	Melbourne	Jun 07, 2021	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Volatile Organics	Melbourne	Jun 07, 2021	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			
Heavy Metals	Melbourne	Jun 07, 2021	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Cyanide (total)	Melbourne	Jun 07, 2021	14 Days
- Method: LTM-INO-4020 Total Free WAD Cyanide by CFA			
Phenols (IWRG 621)			
Phenols (Halogenated)	Melbourne	Jun 07, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Phenols (non-Halogenated)	Melbourne	Jun 07, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
NEPM Screen for Soil Classification			
% Clay	Brisbane	Jun 14, 2021	14 Days
- Method: LTM-GEN-7040			
Conductivity (1:5 aqueous extract at 25°C as rec.)	Melbourne	Jun 07, 2021	7 Days
- Method: LTM-INO-4030 Conductivity			
pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.)	Melbourne	Jun 07, 2021	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Total Organic Carbon	Melbourne	Jun 08, 2021	28 Days
- Method: LTM-INO-4060 Total Organic Carbon in water and soil			
Cation Exchange Capacity	Melbourne	Jun 08, 2021	180 Days
- Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage			
% Moisture	Melbourne	Jun 04, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	Jun 07, 2021	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Jun 07, 2021	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFASs)	Melbourne	Jun 07, 2021	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Jun 07, 2021	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	Jun 04, 2021	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

New Zealand

Auckland
35 O'Rourke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000
Project Name: ST GEORGE HOSP
Project ID: 60571

Order No.:
Report #: 800730
Phone: 02 8245 0300
Fax:

Received: Jun 3, 2021 9:50 AM
Due: Jun 10, 2021
Priority: 5 Day
Contact Name: Sahani Gunatunge

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - W/A guidelines	CANCELLED	Cyanide (total)	HOLD	Silver	Polycyclic Aromatic Hydrocarbons	Metals M8	Phenols (IWRG 621)	BTEX	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Total Recoverable Hydrocarbons	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X														
Brisbane Laboratory - NATA Site # 20794																	X			
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID															
1	BH02_0.2-0.3	Jun 01, 2021		Soil	M21-Jn10346								X		X	X			X	
2	BH02_1.1-1.2	Jun 01, 2021		Soil	M21-Jn10347						X	X		X		X		X		
3	BH11_0.3-0.4	Jun 01, 2021		Soil	M21-Jn10348											X			X	
4	BH11_0.5-0.69	Jun 01, 2021		Soil	M21-Jn10349							X				X				
5	BH08_0.0-0.1	May 31, 2021		Soil	M21-Jn10350							X				X				
6	BH08_0.2-0.3	May 31, 2021		Soil	M21-Jn10351											X	X		X	
7	BH04_0.2-0.3	Jun 01, 2021		Soil	M21-Jn10352			X		X			X			X			X	
8	BH04_0.7-0.8	Jun 01, 2021		Soil	M21-Jn10353						X	X		X		X		X		
9	BH10_0.5-0.6	Jun 01, 2021		Soil	M21-Jn10354											X			X	

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000
Project Name: ST GEORGE HOSP
Project ID: 60571

Order No.:
Report #: 800730
Phone: 02 8245 0300
Fax:

Received: Jun 3, 2021 9:50 AM
Due: Jun 10, 2021
Priority: 5 Day
Contact Name: Sahani Gunatunge

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	Cyanide (total)	HOLD	Silver	Polycyclic Aromatic Hydrocarbons	Metals M8	Phenols (IWRG 621)	BTEX	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Total Recoverable Hydrocarbons	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X														
Brisbane Laboratory - NATA Site # 20794																	X			
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
10	BH10_1.0-1.1	Jun 01, 2021		Soil	M21-Jn10355							X				X				
11	TS (WATER)	Jun 01, 2021		Water	M21-Jn10356									X						
12	TB (WATER)	Jun 01, 2021		Water	M21-Jn10357									X						
13	BH07_0.2-0.3	May 31, 2021		Soil	M21-Jn10358											X			X	
14	BH07_0.5-0.6	May 31, 2021		Soil	M21-Jn10359							X				X				
15	BH05_0.4-0.5	Jun 01, 2021		Soil	M21-Jn10360											X			X	
16	BH05_0.9-1.0	Jun 01, 2021		Soil	M21-Jn10361							X				X				
17	BH03_0.3-0.4	May 31, 2021		Soil	M21-Jn10362								X		X	X			X	
18	BH03_0.6	May 31, 2021		Soil	M21-Jn10363						X	X		X		X		X		
19	BH09_0.2-0.3	Jun 01, 2021		Soil	M21-Jn10364											X			X	
20	BH01_0.4-0.5	May 31, 2021		Soil	M21-Jn10365											X	X		X	

Australia

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Dandenong South VIC 3175
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NATA # 1261
Site # 1254 & 14271

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16 Mars Road
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Auckland
35 O'Rourke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
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IANZ # 1290

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Received: Jun 3, 2021 9:50 AM
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Priority: 5 Day
Contact Name: Sahani Gunatunge

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	Cyanide (total)	HOLD	Silver	Polyyclic Aromatic Hydrocarbons	Metals M8	Phenols (IWRG 621)	BTEX	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Total Recoverable Hydrocarbons	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X														
Brisbane Laboratory - NATA Site # 20794																	X			
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
21	BH01_1.1-1.2	May 31, 2021		Soil	M21-Jn10366						X	X		X		X		X		
22	BH06_0.2-0.3	Jun 01, 2021		Soil	M21-Jn10367			X		X			X			X			X	
23	QA01	Jun 01, 2021		Soil	M21-Jn10368											X			X	
24	BH06_0.0-0.5 (ASB)	Jun 01, 2021		Soil	M21-Jn10369	X														
25	BH01_0.0-0.1 (ASB)	May 31, 2021		Soil	M21-Jn10370	X														
26	BH09_0.0-0.5 (ASB)	Jun 01, 2021		Soil	M21-Jn10371	X														
27	BH03_0.0-0.1 (ASB)	May 31, 2021		Soil	M21-Jn10372	X														
28	BH05_0.0-0.5	Jun 01, 2021		Soil	M21-Jn10373	X														

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
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Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

New Zealand

Auckland
35 O'Rourke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000
Project Name: ST GEORGE HOSP
Project ID: 60571

Order No.:
Report #: 800730
Phone: 02 8245 0300
Fax:

Received: Jun 3, 2021 9:50 AM
Due: Jun 10, 2021
Priority: 5 Day
Contact Name: Sahani Gunatunge

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X														
Brisbane Laboratory - NATA Site # 20794																	X			
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
	(ASB)																			
29	BH11_0.0-0.12 (ASB)	Jun 01, 2021		Soil	M21-Jn10374	X														
30	BH17_0.0-0.05 (ASB)	May 31, 2021		Soil	M21-Jn10375	X														
31	BH10_0.0-1.0 (ASB)	Jun 01, 2021		Soil	M21-Jn10376	X														
32	BH04_0.0-0.6 (ASB)	Jun 01, 2021		Soil	M21-Jn10377	X														
33	BH08_0.0-0.3 (ASB)	May 31, 2021		Soil	M21-Jn10378	X														
34	BH02_0.0-0.8 (ASB)	Jun 01, 2021		Soil	M21-Jn10379	X														

Australia

Melbourne
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Dandenong South VIC 3175
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Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
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Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X														
Brisbane Laboratory - NATA Site # 20794																	X			
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
35	ACM QA01	Jun 01, 2021		Soil	M21-Jn10380	X														
36	BH01_0.2-0.3 (PFAS)	May 31, 2021		Soil	M21-Jn10381											X				X
37	BH02_0.3-0.4 (PFAS)	Jun 01, 2021		Soil	M21-Jn10382											X				X
38	BH03_0.1-0.3 (PFAS)	May 31, 2021		Soil	M21-Jn10383											X				X
39	PF QA01	Jun 01, 2021		Soil	M21-Jn10384											X				X
40	BH02_0.0-0.1	Jun 01, 2021		Soil	M21-Jn10385				X											
41	BH02_0.5-0.6	Jun 01, 2021		Soil	M21-Jn10386				X											
42	BH11_0.0-0.1	Jun 01, 2021		Soil	M21-Jn10387				X											
43	BH11_1.0-1.1	Jun 01, 2021		Soil	M21-Jn10388				X											

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Site # 1254 & 14271

Sydney
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Lane Cove West NSW 2066
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Welshpool WA 6106
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Newcastle
4/52 Industrial Drive
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Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X														
Brisbane Laboratory - NATA Site # 20794																	X			
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
44	BH08_0.8-0.9	May 31, 2021		Soil	M21-Jn10389				X											
45	BH04_0.4-0.5	Jun 01, 2021		Soil	M21-Jn10390				X											
46	BH10_0.0-0.1	Jun 01, 2021		Soil	M21-Jn10391				X											
47	BH10_0.3-0.4	Jun 01, 2021		Soil	M21-Jn10392				X											
48	BH07_0.0-0.1	May 31, 2021		Soil	M21-Jn10393				X											
49	BH05_0.0-0.1	Jun 01, 2021		Soil	M21-Jn10394				X											
50	BH05_0.3-0.4	Jun 01, 2021		Soil	M21-Jn10395				X											
51	BH03_0.0-0.1	May 31, 2021		Soil	M21-Jn10396				X											
52	BH03_1.0-1.1	May 31, 2021		Soil	M21-Jn10397				X											
53	BH09_0.0-0.1	Jun 01, 2021		Soil	M21-Jn10398				X											
54	BH09_0.5-0.6	Jun 01, 2021		Soil	M21-Jn10399				X											

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Melbourne
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Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X														
Brisbane Laboratory - NATA Site # 20794																	X			
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
55	BH01_0.0-0.1	May 31, 2021		Soil	M21-Jn10400				X											
56	BH01_0.8-0.9	May 31, 2021		Soil	M21-Jn10401				X											
57	BH06_0.0-0.1	Jun 01, 2021		Soil	M21-Jn10402				X											
58	BH06_0.5-0.6	Jun 01, 2021		Soil	M21-Jn10403				X											
59	BH06_0.6-0.7	Jun 01, 2021		Soil	M21-Jn10404				X											
60	BH06_0.7-0.8	Jun 01, 2021		Soil	M21-Jn10405		X													
61	BH01_0.9-1.0 (PFAS)	May 31, 2021		Soil	M21-Jn10406				X											
62	BH01_1.2-1.3 (PFAS)	May 31, 2021		Soil	M21-Jn10407				X											
63	BH02_0.1-0.2 (PFAS)	Jun 01, 2021		Soil	M21-Jn10408				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X														
Brisbane Laboratory - NATA Site # 20794																	X			
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
64	BH02_0.7-0.8 (PFAS)	Jun 01, 2021		Soil	M21-Jn10409				X											
65	BH03_0.3-0.4 (PFAS)	May 31, 2021		Soil	M21-Jn10410				X											
66	BH03_0.9-1.0 (PFAS)	May 31, 2021		Soil	M21-Jn10411				X											
67	BH03_1.1-1.2 (PFAS)	May 31, 2021		Soil	M21-Jn10412				X											
68	TS (SOIL)	Jun 01, 2021		Soil	M21-Jn10413				X											
69	TB (SOIL)	Jun 01, 2021		Soil	M21-Jn10414				X											
70	BH08_0.5-0.6	May 31, 2021		Soil	M21-Jn10415				X											
Test Counts						12	1	2	30	2	4	9	4	6	2	25	2	4	12	4

General Glossary - Mould

SPORE CLASSIFICATION

WATER INDICATOR: Most commonly associated with indoor mould growth in buildings with long-term water intrusion issues.

BACKGROUND DEBRIS: Background debris is the amount of non-fungal particulate present in the trace including dust, fibres, skin cells, dust mites, and insect parts. A debris rating is assigned each trace from 0 (lowest) to 5 (highest). A higher debris rating means samples are more difficult to analyse, and spores, especially smaller spores like *Aspergillus/Penicillium*, may be obscured. Counts with debris ratings of 4 or 5 should be regarded as minimal counts with actual counts assumed to be significantly higher. A further explanation of the debris rating is listed below:

- 1) None Detected. No debris observed.
- 2) Trace. Field of view obscured < 5%. Counts unaffected.
- 3) Light. Field of view obscured 5% to 25%. Counts slightly affected.
- 4) Moderate. Field of view obscured 25% to 75%. Actual counts may be higher than reported counts.
- 5) Heavy. Field of view obscured 75% to 90%. Actual counts may be significantly higher than reported counts.
- 6) Very Heavy. Field of view obscured > 90%. Actual counts may be significantly higher than reported counts.

TERMS

COC	Chain of Custody
fs	Fungal Structures. A collective term for a fragment; or groups of fragments from fungi, including but not limited to conidia, conidiophores, hyphae and spores.
Hyphal Structures	Hyphae, mycelia or fruiting bodies – fragmented or intact
Smut/myxo/peri.	Smuts / myxomycetes / periconia
-like	Spores lacking distinguishable characteristics from other similar spores
N/A	Not applicable
NS	Non-specified
Un-ID	Unidentified Fungal Particulate
Set	Set of 4 agar plates per sample
TNTC	Too Numerous to Count
LOR	Limit of Reporting

DEFINITION OF TERMS

Raw Counts	The number of spores counted by the analyst.
% Analysed	The amount of the trace that was analysed for each individual spore type. If large amounts of any spore type(s) exist, counts may be estimated.
LOR	LOR for Spore Trap is 13 fs/m ³ at 100% trace analysis.

UNITS:

fs/m³	Fungal Structure per cubic metre
fs/cm²	Fungal Structure per square centimetre
cfu	Colony Forming Units
L/min	Litres per minute
g	Gram
min	Minute
%	Percentage

INDOOR AND OUTDOOR COMPARISONS:

There are no current industrial standards regarding permissible levels of airborne fungi that may be present in buildings. It is common for fungal spores to be present in a normal indoor environment. A general guideline that is widely accepted in the industrial hygiene industry is that the types and numbers of mould spores present in the indoor environment should be similar to those present in the outdoor environment. If inside spore counts are significantly higher than outside counts, this may indicate a potential mould problem. The comparison of outdoor and indoor spore types and concentrations is a useful tool in assessing abnormal mould contamination; however, it should not be the sole determining factor in evaluating health risks and remediation strategies.

All samples received in acceptable condition. Information provided by customer includes customer sample ID, location, flow rate and volume. Analytical results are not corrected for field and laboratory blanks. Test results relate only to the items tested and cannot be extrapolated to anything larger than their original intent. This report may not be reproduced, except in full, without written approval by Eurofins Environment Testing Australia Pty Ltd. Eurofins bears no responsibility for client sampling methods and makes no warranty representation regarding the accuracy of client-supplied information in preparing and presenting analytical results. Eurofins maintains liability limited to the cost of analysis; except for Eurofins own wilful misconduct or gross negligence. Interpretation of the analytical results is the sole responsibility of the customer.

Other:

1. Samples were analysed on an "as received" basis.
2. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on results.
3. Spores of *Aspergillus*, *Penicillium*, and others are small with few distinguishing features and therefore can be difficult to differentiate.
4. If % analysed is <100%, spores per m³ is based on extrapolation and not actual count.
5. This report replaces any interim results previously issued.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1,2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1,3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4,4'-DDD	mg/kg	< 0.05			0.05	Pass	
4,4'-DDE	mg/kg	< 0.05			0.05	Pass	
4,4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Phenols (Halogenated)							
2-Chlorophenol	mg/kg	< 0.5			0.5	Pass	
2,4-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
2,4,5-Trichlorophenol	mg/kg	< 1			1	Pass	
2,4,6-Trichlorophenol	mg/kg	< 1			1	Pass	
2,6-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 1			1	Pass	
Pentachlorophenol	mg/kg	< 1			1	Pass	
Tetrachlorophenols - Total	mg/kg	< 10			10	Pass	
Method Blank							
Phenols (non-Halogenated)							
2-Cyclohexyl-4,6-dinitrophenol	mg/kg	< 20			20	Pass	
2-Methyl-4,6-dinitrophenol	mg/kg	< 5			5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2			0.2	Pass	
2-Nitrophenol	mg/kg	< 1			1.0	Pass	
2,4-Dimethylphenol	mg/kg	< 0.5			0.5	Pass	
2,4-Dinitrophenol	mg/kg	< 5			5	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4			0.4	Pass	
4-Nitrophenol	mg/kg	< 5			5	Pass	
Dinoseb	mg/kg	< 20			20	Pass	
Phenol	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Iron	mg/kg	< 20			20	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Silver	mg/kg	< 2			2	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Conductivity (1:5 aqueous extract at 25°C as rec.)	uS/cm	< 10			10	Pass	
Total Organic Carbon	%	< 0.1			0.1	Pass	
Cyanide (total)	mg/kg	< 5			5	Pass	
Method Blank							
Cation Exchange Capacity							
Cation Exchange Capacity	meq/100g	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	78			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	111			70-130	Pass	
Toluene	%	100			70-130	Pass	
Ethylbenzene	%	107			70-130	Pass	
m&p-Xylenes	%	104			70-130	Pass	
Xylenes - Total*	%	81			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	112			70-130	Pass	
1.1.1-Trichloroethane	%	100			70-130	Pass	
1.2-Dichlorobenzene	%	107			70-130	Pass	
1.2-Dichloroethane	%	103			70-130	Pass	
Trichloroethene	%	100			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	106			70-130	Pass	
TRH C6-C10	%	79			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C10-C14	%	111			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	105			70-130	Pass	
Acenaphthylene	%	102			70-130	Pass	
Anthracene	%	116			70-130	Pass	
Benz(a)anthracene	%	106			70-130	Pass	
Benzo(a)pyrene	%	110			70-130	Pass	
Benzo(b&j)fluoranthene	%	94			70-130	Pass	
Benzo(g,h,i)perylene	%	100			70-130	Pass	
Benzo(k)fluoranthene	%	129			70-130	Pass	
Chrysene	%	124			70-130	Pass	
Dibenz(a,h)anthracene	%	93			70-130	Pass	
Fluoranthene	%	119			70-130	Pass	
Fluorene	%	123			70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	80			70-130	Pass	
Naphthalene	%	115			70-130	Pass	
Phenanthrene	%	85			70-130	Pass	
Pyrene	%	122			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	125			70-130	Pass	
4,4'-DDD	%	109			70-130	Pass	
4,4'-DDE	%	114			70-130	Pass	
4,4'-DDT	%	74			70-130	Pass	
α-BHC	%	102			70-130	Pass	
Aldrin	%	122			70-130	Pass	
β-BHC	%	85			70-130	Pass	
δ-BHC	%	106			70-130	Pass	
Dieldrin	%	104			70-130	Pass	
Endosulfan I	%	109			70-130	Pass	
Endosulfan II	%	101			70-130	Pass	
Endosulfan sulphate	%	105			70-130	Pass	
Endrin	%	112			70-130	Pass	
Endrin aldehyde	%	105			70-130	Pass	
Endrin ketone	%	98			70-130	Pass	
γ-BHC (Lindane)	%	117			70-130	Pass	
Heptachlor	%	110			70-130	Pass	
Heptachlor epoxide	%	118			70-130	Pass	
Hexachlorobenzene	%	117			70-130	Pass	
Methoxychlor	%	98			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	80			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	101			30-130	Pass	
2,4-Dichlorophenol	%	115			30-130	Pass	
2,4,5-Trichlorophenol	%	97			30-130	Pass	
2,4,6-Trichlorophenol	%	85			30-130	Pass	
2,6-Dichlorophenol	%	96			30-130	Pass	
4-Chloro-3-methylphenol	%	104			30-130	Pass	
Pentachlorophenol	%	90			30-130	Pass	
Tetrachlorophenols - Total	%	94			30-130	Pass	
LCS - % Recovery							
Phenols (non-Halogenated)							
2-Cyclohexyl-4,6-dinitrophenol	%	79			30-130	Pass	
2-Methyl-4,6-dinitrophenol	%	119			30-130	Pass	
2-Methylphenol (o-Cresol)	%	77			30-130	Pass	
2-Nitrophenol	%	114			30-130	Pass	
2,4-Dimethylphenol	%	114			30-130	Pass	
2,4-Dinitrophenol	%	78			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	%	103			30-130	Pass	
4-Nitrophenol	%	104			30-130	Pass	
Dinoseb	%	81			30-130	Pass	
Phenol	%	93			30-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH >C10-C16	%	112			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	112			80-120	Pass	
Cadmium	%	99			80-120	Pass	
Chromium	%	114			80-120	Pass	
Copper	%	109			80-120	Pass	
Iron	%	105			80-120	Pass	
Lead	%	114			80-120	Pass	
Mercury	%	111			80-120	Pass	
Nickel	%	108			80-120	Pass	
Silver	%	103			80-120	Pass	
Zinc	%	109			80-120	Pass	
LCS - % Recovery							
Total Organic Carbon	%	97			70-130	Pass	
Cyanide (total)	%	104			70-130	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluoropentanoic acid (PFPeA)	%	92			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	107			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	110			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	108			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	99			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	127			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	112			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	111			50-150	Pass	
Perfluorotridecanoic acid (PFTTrDA)	%	122			50-150	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorotetradecanoic acid (PFTeDA)			%	115			50-150	Pass	
LCS - % Recovery									
Perfluoroalkyl sulfonamido substances									
Perfluorooctane sulfonamide (FOSA)			%	109			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)			%	121			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)			%	140			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)			%	108			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)			%	106			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)			%	118			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)			%	122			50-150	Pass	
LCS - % Recovery									
Perfluoroalkyl sulfonic acids (PFSA's)									
Perfluorobutanesulfonic acid (PFBS)			%	101			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)			%	112			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)			%	106			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)			%	101			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)			%	102			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)			%	150			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)			%	82			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)			%	114			50-150	Pass	
LCS - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)									
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)			%	126			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)			%	133			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)			%	104			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)			%	120			50-150	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
BTEX									
				Result 1					
Benzene	M21-Jn10818	NCP	%	98			70-130	Pass	
Toluene	M21-Jn10818	NCP	%	95			70-130	Pass	
Ethylbenzene	M21-Jn10818	NCP	%	102			70-130	Pass	
m&p-Xylenes	M21-Jn10818	NCP	%	102			70-130	Pass	
o-Xylene	M21-Jn10818	NCP	%	108			70-130	Pass	
Xylenes - Total*	M21-Jn10818	NCP	%	104			70-130	Pass	
Spike - % Recovery									
Volatile Organics									
				Result 1					
1,1-Dichloroethene	M21-Jn10818	NCP	%	77			70-130	Pass	
1,1,1-Trichloroethane	M21-Jn10818	NCP	%	84			70-130	Pass	
1,2-Dichlorobenzene	M21-Jn10818	NCP	%	97			70-130	Pass	
1,2-Dichloroethane	M21-Jn10818	NCP	%	96			70-130	Pass	
Trichloroethene	M21-Jn10818	NCP	%	89			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions									
				Result 1					
Naphthalene	M21-Jn10818	NCP	%	101			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions									
				Result 1					
TRH C10-C14	M21-Jn14544	NCP	%	82			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons									
				Result 1					
Acenaphthene	M21-Jn13860	NCP	%	88			70-130	Pass	
Acenaphthylene	M21-Jn13860	NCP	%	96			70-130	Pass	
Anthracene	M21-Jn13860	NCP	%	77			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benz(a)anthracene	M21-Jn13860	NCP	%	129			70-130	Pass	
Benzo(a)pyrene	M21-Jn13860	NCP	%	85			70-130	Pass	
Benzo(b&j)fluoranthene	M21-Jn13860	NCP	%	90			70-130	Pass	
Benzo(g,h,i)perylene	M21-Jn13860	NCP	%	126			70-130	Pass	
Benzo(k)fluoranthene	M21-Jn13860	NCP	%	121			70-130	Pass	
Chrysene	M21-Jn13860	NCP	%	96			70-130	Pass	
Dibenz(a,h)anthracene	M21-Jn13860	NCP	%	121			70-130	Pass	
Fluoranthene	M21-Jn13860	NCP	%	78			70-130	Pass	
Fluorene	M21-Jn13860	NCP	%	94			70-130	Pass	
Indeno(1,2,3-cd)pyrene	M21-Jn13860	NCP	%	108			70-130	Pass	
Naphthalene	M21-Jn13860	NCP	%	94			70-130	Pass	
Phenanthrene	M21-Jn13860	NCP	%	76			70-130	Pass	
Pyrene	M21-Jn13860	NCP	%	76			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	M21-Jn13861	NCP	%	116			70-130	Pass	
Aroclor-1260	M21-Jn13861	NCP	%	80			70-130	Pass	
Spike - % Recovery									
Phenols (Halogenated)				Result 1					
2-Chlorophenol	M21-Jn13860	NCP	%	92			30-130	Pass	
2,4-Dichlorophenol	M21-Jn13860	NCP	%	91			30-130	Pass	
2,4,5-Trichlorophenol	M21-Jn13860	NCP	%	98			30-130	Pass	
2,4,6-Trichlorophenol	M21-Jn13860	NCP	%	69			30-130	Pass	
2,6-Dichlorophenol	M21-Jn13860	NCP	%	84			30-130	Pass	
4-Chloro-3-methylphenol	M21-Jn13860	NCP	%	63			30-130	Pass	
Pentachlorophenol	M21-Jn13860	NCP	%	28			30-130	Fail	Q08
Tetrachlorophenols - Total	M21-Jn13860	NCP	%	93			30-130	Pass	
Spike - % Recovery									
Phenols (non-Halogenated)				Result 1					
2-Methylphenol (o-Cresol)	M21-Jn13860	NCP	%	91			30-130	Pass	
2-Nitrophenol	M21-Jn13860	NCP	%	91			30-130	Pass	
2,4-Dimethylphenol	M21-Jn13860	NCP	%	89			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	M21-Jn13860	NCP	%	110			30-130	Pass	
4-Nitrophenol	M21-Jn13860	NCP	%	117			30-130	Pass	
Dinoseb	M21-Jn13860	NCP	%	59			30-130	Pass	
Phenol	M21-Jn13860	NCP	%	94			30-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	M21-Jn14544	NCP	%	79			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M21-Jn14070	NCP	%	110			75-125	Pass	
Cadmium	M21-Jn14070	NCP	%	104			75-125	Pass	
Chromium	M21-Jn14070	NCP	%	110			75-125	Pass	
Copper	M21-Jn14070	NCP	%	112			75-125	Pass	
Lead	M21-Jn14070	NCP	%	113			75-125	Pass	
Mercury	M21-Jn14070	NCP	%	110			75-125	Pass	
Nickel	M21-Jn14070	NCP	%	100			75-125	Pass	
Zinc	M21-Jn14070	NCP	%	100			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M21-Jn11367	NCP	%	122			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
TRH C6-C10	M21-Jn11367	NCP	%	120		70-130	Pass	
Spike - % Recovery								
Organochlorine Pesticides				Result 1				
Chlordanes - Total	M21-Jn10818	NCP	%	96		70-130	Pass	
4,4'-DDD	M21-Jn10818	NCP	%	94		70-130	Pass	
4,4'-DDE	M21-Jn10818	NCP	%	89		70-130	Pass	
4,4'-DDT	M21-Jn10818	NCP	%	105		70-130	Pass	
a-BHC	M21-Jn10818	NCP	%	84		70-130	Pass	
Aldrin	M21-Jn10818	NCP	%	92		70-130	Pass	
b-BHC	M21-Jn10818	NCP	%	95		70-130	Pass	
d-BHC	M21-Jn10818	NCP	%	72		70-130	Pass	
Dieldrin	M21-Jn10818	NCP	%	99		70-130	Pass	
Endosulfan I	M21-Jn10818	NCP	%	73		70-130	Pass	
Endosulfan II	M21-Jn10818	NCP	%	85		70-130	Pass	
Endosulfan sulphate	M21-Jn10818	NCP	%	83		70-130	Pass	
Endrin	M21-Jn10818	NCP	%	92		70-130	Pass	
Endrin aldehyde	M21-Jn10818	NCP	%	100		70-130	Pass	
Endrin ketone	M21-Jn10818	NCP	%	104		70-130	Pass	
g-BHC (Lindane)	M21-Jn10818	NCP	%	104		70-130	Pass	
Heptachlor	M21-Jn10818	NCP	%	86		70-130	Pass	
Heptachlor epoxide	M21-Jn10818	NCP	%	87		70-130	Pass	
Hexachlorobenzene	M21-Jn10818	NCP	%	97		70-130	Pass	
Methoxychlor	M21-Jn10818	NCP	%	76		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Iron	M21-Jn06639	NCP	%	599		75-125	Fail	Q08
Spike - % Recovery								
Phenols (non-Halogenated)				Result 1				
2-Cyclohexyl-4,6-dinitrophenol	M21-Jn03439	NCP	%	53		30-130	Pass	
2-Methyl-4,6-dinitrophenol	M21-Jn14783	NCP	%	95		30-130	Pass	
2,4-Dinitrophenol	B21-My60580	NCP	%	90		30-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Silver	M21-Jn14782	NCP	%	91		75-125	Pass	
Spike - % Recovery								
				Result 1				
Cyanide (total)	M21-Jn13823	NCP	%	83		70-130	Pass	
Spike - % Recovery								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1				
Perfluorobutanoic acid (PFBA)	M21-Jn10384	CP	%	112		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M21-Jn10384	CP	%	102		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M21-Jn10384	CP	%	113		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M21-Jn10384	CP	%	127		50-150	Pass	
Perfluorooctanoic acid (PFOA)	M21-Jn10384	CP	%	110		50-150	Pass	
Perfluorononanoic acid (PFNA)	M21-Jn10384	CP	%	112		50-150	Pass	
Perfluorodecanoic acid (PFDA)	M21-Jn10384	CP	%	119		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M21-Jn10384	CP	%	120		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M21-Jn10384	CP	%	121		50-150	Pass	
Perfluorotridecanoic acid (PFTTrDA)	M21-Jn10384	CP	%	123		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M21-Jn10384	CP	%	127		50-150	Pass	
Spike - % Recovery								
Perfluoroalkyl sulfonamido substances				Result 1				

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorooctane sulfonamide (FOSA)	M21-Jn10384	CP	%	132			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M21-Jn10384	CP	%	128			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M21-Jn10384	CP	%	146			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M21-Jn10384	CP	%	120			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M21-Jn10384	CP	%	118			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M21-Jn10384	CP	%	135			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M21-Jn10384	CP	%	135			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSA's)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M21-Jn10384	CP	%	99			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M21-Jn10384	CP	%	116			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M21-Jn10384	CP	%	101			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M21-Jn10384	CP	%	106			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M21-Jn10384	CP	%	106			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M21-Jn10384	CP	%	148			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M21-Jn10384	CP	%	82			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M21-Jn10384	CP	%	109			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M21-Jn10384	CP	%	132			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M21-Jn10384	CP	%	146			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M21-Jn10384	CP	%	115			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M21-Jn10384	CP	%	130			50-150	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M21-Jn10817	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M21-Jn10817	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M21-Jn10817	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M21-Jn10817	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M21-Jn10817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M21-Jn10817	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M21-Jn10817	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1.1-Dichloroethane	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1-Dichloroethene	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.1-Trichloroethane	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.1.2-Tetrachloroethane	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.2-Trichloroethane	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.2.2-Tetrachloroethane	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dibromoethane	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichlorobenzene	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloroethane	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloropropane	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.3-Trichloropropane	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.4-Trimethylbenzene	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichlorobenzene	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichloropropane	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3.5-Trimethylbenzene	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.4-Dichlorobenzene	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Butanone (MEK)	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Propanone (Acetone)	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chlorotoluene	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Allyl chloride	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromobenzene	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromochloromethane	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromodichloromethane	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromoform	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromomethane	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon disulfide	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon Tetrachloride	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chlorobenzene	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroethane	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroform	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloromethane	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.2-Dichloroethene	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.3-Dichloropropene	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromochloromethane	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromomethane	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorodifluoromethane	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Iodomethane	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Isopropyl benzene (Cumene)	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Methylene Chloride	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Styrene	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Tetrachloroethene	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.2-Dichloroethene	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.3-Dichloropropene	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloroethene	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichlorofluoromethane	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Vinyl chloride	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	M21-Jn10817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	M21-Jn10817	NCP	mg/kg	< 20	< 20	<1	30%	Pass

Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C10-C14	M21-Jn12098	NCP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	M21-Jn12098	NCP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	M21-Jn12098	NCP	mg/kg	< 50	< 50	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	M21-Jn13704	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	M21-Jn13704	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	M21-Jn13704	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	M21-Jn13704	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	M21-Jn13704	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	M21-Jn13704	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	M21-Jn13704	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	M21-Jn13704	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	M21-Jn13704	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	M21-Jn13704	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	M21-Jn13704	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	M21-Jn13704	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	M21-Jn13704	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	M21-Jn13704	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	M21-Jn13704	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	M21-Jn13704	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	M21-Jn13704	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	M21-Jn13704	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	M21-Jn13704	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	M21-Jn13704	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-BHC	M21-Jn13704	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	M21-Jn13704	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-BHC	M21-Jn13704	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-BHC	M21-Jn13704	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	M21-Jn13704	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	M21-Jn13704	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	M21-Jn13704	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	M21-Jn13704	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	M21-Jn13704	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	M21-Jn13704	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	M21-Jn13704	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-BHC (Lindane)	M21-Jn13704	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	M21-Jn13704	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	M21-Jn13704	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	M21-Jn13704	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	M21-Jn13704	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Phenols (Halogenated)				Result 1	Result 2	RPD		
2-Chlorophenol	M21-Jn13704	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4-Dichlorophenol	M21-Jn13704	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4,5-Trichlorophenol	M21-Jn13704	NCP	mg/kg	< 1	< 1	<1	30%	Pass
2,4,6-Trichlorophenol	M21-Jn13704	NCP	mg/kg	< 1	< 1	<1	30%	Pass
2,6-Dichlorophenol	M21-Jn13704	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chloro-3-methylphenol	M21-Jn13704	NCP	mg/kg	< 1	< 1	<1	30%	Pass
Pentachlorophenol	M21-Jn13704	NCP	mg/kg	< 1	< 1	<1	30%	Pass
Tetrachlorophenols - Total	M21-Jn13704	NCP	mg/kg	< 10	< 10	<1	30%	Pass

Duplicate								
Phenols (non-Halogenated)				Result 1	Result 2	RPD		
2-Cyclohexyl-4,6-dinitrophenol	M21-Jn13704	NCP	mg/kg	< 20	< 20	<1	30%	Pass
2-Methyl-4,6-dinitrophenol	M21-Jn13704	NCP	mg/kg	< 5	< 5	<1	30%	Pass
2-Methylphenol (o-Cresol)	M21-Jn13704	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
2-Nitrophenol	M21-Jn13704	NCP	mg/kg	< 1	< 1	<1	30%	Pass
2,4-Dimethylphenol	M21-Jn13704	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4-Dinitrophenol	M21-Jn13704	NCP	mg/kg	< 5	< 5	<1	30%	Pass
3&4-Methylphenol (m&p-Cresol)	M21-Jn13704	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
4-Nitrophenol	M21-Jn13704	NCP	mg/kg	< 5	< 5	<1	30%	Pass
Dinoseb	M21-Jn13704	NCP	mg/kg	< 20	< 20	<1	30%	Pass
Phenol	M21-Jn13704	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
TRH >C10-C16	M21-Jn12098	NCP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	M21-Jn12098	NCP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	M21-Jn12098	NCP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	M21-Jn10812	NCP	mg/kg	5.3	5.9	11	30%	Pass
Cadmium	M21-Jn10812	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	M21-Jn10812	NCP	mg/kg	14	16	18	30%	Pass
Copper	M21-Jn10812	NCP	mg/kg	16	17	5.0	30%	Pass
Lead	M21-Jn10812	NCP	mg/kg	9.2	11	19	30%	Pass
Mercury	M21-Jn10812	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	M21-Jn10812	NCP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	M21-Jn10812	NCP	mg/kg	100	100	2.0	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Toxaphene	M21-Jn13152	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Duplicate								
Polychlorinated Biphenyls				Result 1	Result 2	RPD		
Aroclor-1016	M21-Jn13152	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1221	M21-Jn13152	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1232	M21-Jn13152	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1242	M21-Jn13152	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1248	M21-Jn13152	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1254	M21-Jn13152	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1260	M21-Jn13152	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Total PCB*	M21-Jn13152	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Iron	M21-Jn14782	NCP	mg/kg	14000	14000	2.0	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Conductivity (1:5 aqueous extract at 25°C as rec.)	M21-Jn11932	NCP	uS/cm	110	110	2.6	30%	Pass
pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.)	M21-Jn13816	NCP	pH Units	9.2	9.3	pass	30%	Pass
Total Organic Carbon	M21-Jn10833	NCP	%	0.5	0.9	55	30%	Fail
Duplicate								
Cation Exchange Capacity				Result 1	Result 2	RPD		
Cation Exchange Capacity	B21-Jn15663	NCP	meq/100g	34	31	11	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Silver	M21-Jn14782	NCP	mg/kg	< 2	< 2	<1	30%	Pass

Duplicate								
				Result 1	Result 2	RPD		
Cyanide (total)	M20-No39820	NCP	mg/kg	< 5	< 5	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	M21-Jn10354	CP	%	11	13	15	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	M21-Jn10366	CP	%	14	14	5.0	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	M21-Jn10383	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	M21-Jn10383	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	M21-Jn10383	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	M21-Jn10383	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	M21-Jn10383	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanoic acid (PFNA)	M21-Jn10383	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	M21-Jn10383	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	M21-Jn10383	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	M21-Jn10383	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	M21-Jn10383	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	M21-Jn10383	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M21-Jn10383	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M21-Jn10383	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M21-Jn10383	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M21-Jn10383	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M21-Jn10383	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M21-Jn10383	CP	ug/kg	< 10	< 10	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M21-Jn10383	CP	ug/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M21-Jn10383	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M21-Jn10383	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M21-Jn10383	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M21-Jn10383	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M21-Jn10383	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M21-Jn10383	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M21-Jn10383	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M21-Jn10383	CP	ug/kg	< 5	< 5	<1	30%	Pass

Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M21-Jn10383	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M21-Jn10383	CP	ug/kg	< 10	< 10	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M21-Jn10383	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M21-Jn10383	CP	ug/kg	< 5	< 5	<1	30%	Pass

Comments

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
G01	The LORs have been raised due to matrix interference
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

John Nguyen	Analytical Services Manager
Emily Rosenberg	Senior Analyst-Metal (VIC)
Jonathon Angell	Senior Analyst-Inorganic (QLD)
Joseph Edouard	Senior Analyst-Organic (VIC)
Joseph Edouard	Senior Analyst-PFAS (VIC)
Scott Beddoes	Senior Analyst-Inorganic (VIC)
Vivian Wang	Senior Analyst-Volatile (VIC)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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



NATA Accredited
Accreditation Number 1261
Site Number 18217

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

Attention: Sahani Gunatunge
Report 800730-AID
Project Name **ST GEORGE HOSP**
Project ID **60571**
Received Date Jun 03, 2021
Date Reported Jun 15, 2021

Methodology:

Asbestos Fibre
 Identification

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

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

Unknown Mineral
 Fibres

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

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

Subsampling Soil
 Samples

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

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

Bonded asbestos-
 containing material
 (ACM)

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

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

Limit of Reporting

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

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

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

Project Name ST GEORGE HOSP
Project ID 60571
Date Sampled May 31, 2021 to Jun 01, 2021
Report 800730-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH06_0.0-0.5 (ASB)	21-Jn10369	Jun 01, 2021	Approximate Sample 657g Sample consisted of: Brown coarse-grained soil, bitumin and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH01_0.0-0.1 (ASB)	21-Jn10370	May 31, 2021	Approximate Sample 793g Sample consisted of: Brown coarse-grained soil, glass, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH09_0.0-0.5 (ASB)	21-Jn10371	Jun 01, 2021	Approximate Sample 752g Sample consisted of: Brown coarse-grained soil, glass, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH03_0.0-0.1 (ASB)	21-Jn10372	May 31, 2021	Approximate Sample 751g Sample consisted of: Brown coarse-grained soil, glass, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH05_0.0-0.5 (ASB)	21-Jn10373	Jun 01, 2021	Approximate Sample 791g Sample consisted of: Brown coarse-grained soil, glass, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH11_0.0-0.12 (ASB)	21-Jn10374	Jun 01, 2021	Approximate Sample 656g Sample consisted of: Brown coarse-grained soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH17_0.0-0.05 (ASB)	21-Jn10375	May 31, 2021	Approximate Sample 828g Sample consisted of: Brown coarse-grained soil, bitumin, cement, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH10_0.0-1.0 (ASB)	21-Jn10376	Jun 01, 2021	Approximate Sample 597g Sample consisted of: Brown coarse-grained soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH04_0.0-0.6 (ASB)	21-Jn10377	Jun 01, 2021	Approximate Sample 448g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH08_0.0-0.3 (ASB)	21-Jn10378	May 31, 2021	Approximate Sample 673g Sample consisted of: Brown fine-grained clayey soil, brick, bitumin and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH02_0.0-0.8 (ASB)	21-Jn10379	Jun 01, 2021	Approximate Sample 515g Sample consisted of: Brown coarse-grained soil, brick, glass, cement, bitumin and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
ACM QA01	21-Jn10380	Jun 01, 2021	Approximate Sample 627g Sample consisted of: Brown coarse-grained soil, brick, glass, cement, bitumin and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Jun 04, 2021	Indefinite

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

New Zealand

Auckland
35 O'Rourke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000
Project Name: ST GEORGE HOSP
Project ID: 60571

Order No.:
Report #: 800730
Phone: 02 8245 0300
Fax:

Received: Jun 3, 2021 9:50 AM
Due: Jun 10, 2021
Priority: 5 Day
Contact Name: Sahani Gunatunge

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - W/A guidelines	CANCELLED	Cyanide (total)	HOLD	Silver	Polycyclic Aromatic Hydrocarbons	Metals M8	Phenols (IWRG 621)	BTEX	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Total Recoverable Hydrocarbons	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X														
Brisbane Laboratory - NATA Site # 20794																	X			
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID															
1	BH02_0.2-0.3	Jun 01, 2021		Soil	M21-Jn10346								X		X	X			X	
2	BH02_1.1-1.2	Jun 01, 2021		Soil	M21-Jn10347						X	X		X		X		X		
3	BH11_0.3-0.4	Jun 01, 2021		Soil	M21-Jn10348											X			X	
4	BH11_0.5-0.69	Jun 01, 2021		Soil	M21-Jn10349							X				X				
5	BH08_0.0-0.1	May 31, 2021		Soil	M21-Jn10350							X				X				
6	BH08_0.2-0.3	May 31, 2021		Soil	M21-Jn10351											X	X		X	
7	BH04_0.2-0.3	Jun 01, 2021		Soil	M21-Jn10352			X		X			X			X			X	
8	BH04_0.7-0.8	Jun 01, 2021		Soil	M21-Jn10353						X	X		X		X		X		
9	BH10_0.5-0.6	Jun 01, 2021		Soil	M21-Jn10354											X			X	

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

New Zealand

Auckland
35 O'Rourke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000
Project Name: ST GEORGE HOSP
Project ID: 60571

Order No.:
Report #: 800730
Phone: 02 8245 0300
Fax:

Received: Jun 3, 2021 9:50 AM
Due: Jun 10, 2021
Priority: 5 Day
Contact Name: Sahani Gunatunge

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	Cyanide (total)	HOLD	Silver	Polycyclic Aromatic Hydrocarbons	Metals M8	Phenols (IWRG 621)	BTEX	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Total Recoverable Hydrocarbons	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X														
Brisbane Laboratory - NATA Site # 20794																	X			
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
10	BH10_1.0-1.1	Jun 01, 2021		Soil	M21-Jn10355							X				X				
11	TS (WATER)	Jun 01, 2021		Water	M21-Jn10356									X						
12	TB (WATER)	Jun 01, 2021		Water	M21-Jn10357									X						
13	BH07_0.2-0.3	May 31, 2021		Soil	M21-Jn10358											X			X	
14	BH07_0.5-0.6	May 31, 2021		Soil	M21-Jn10359							X				X				
15	BH05_0.4-0.5	Jun 01, 2021		Soil	M21-Jn10360											X			X	
16	BH05_0.9-1.0	Jun 01, 2021		Soil	M21-Jn10361							X				X				
17	BH03_0.3-0.4	May 31, 2021		Soil	M21-Jn10362								X		X	X			X	
18	BH03_0.6	May 31, 2021		Soil	M21-Jn10363						X	X		X		X		X		
19	BH09_0.2-0.3	Jun 01, 2021		Soil	M21-Jn10364											X			X	
20	BH01_0.4-0.5	May 31, 2021		Soil	M21-Jn10365											X	X		X	

Australia

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NATA # 1261
Site # 1254 & 14271

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PO Box 60 Wickham 2293
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New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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Project ID: 60571

Order No.:
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Phone: 02 8245 0300
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Received: Jun 3, 2021 9:50 AM
Due: Jun 10, 2021
Priority: 5 Day
Contact Name: Sahani Gunatunge

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	Cyanide (total)	HOLD	Silver	Polyyclic Aromatic Hydrocarbons	Metals M8	Phenols (IWRG 621)	BTEX	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Total Recoverable Hydrocarbons	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X														
Brisbane Laboratory - NATA Site # 20794																	X			
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
21	BH01_1.1-1.2	May 31, 2021		Soil	M21-Jn10366						X	X		X		X		X		
22	BH06_0.2-0.3	Jun 01, 2021		Soil	M21-Jn10367			X		X			X			X			X	
23	QA01	Jun 01, 2021		Soil	M21-Jn10368											X			X	
24	BH06_0.0-0.5 (ASB)	Jun 01, 2021		Soil	M21-Jn10369	X														
25	BH01_0.0-0.1 (ASB)	May 31, 2021		Soil	M21-Jn10370	X														
26	BH09_0.0-0.5 (ASB)	Jun 01, 2021		Soil	M21-Jn10371	X														
27	BH03_0.0-0.1 (ASB)	May 31, 2021		Soil	M21-Jn10372	X														
28	BH05_0.0-0.5	Jun 01, 2021		Soil	M21-Jn10373	X														

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
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Phone : +61 7 3902 4600
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46-48 Banksia Road
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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000
Project Name: ST GEORGE HOSP
Project ID: 60571

Order No.:
Report #: 800730
Phone: 02 8245 0300
Fax:

Received: Jun 3, 2021 9:50 AM
Due: Jun 10, 2021
Priority: 5 Day
Contact Name: Sahani Gunatunge

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	Cyanide (total)	HOLD	Silver	Polycyclic Aromatic Hydrocarbons	Metals M8	Phenols (IWRG 621)	BTEX	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Total Recoverable Hydrocarbons	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X														
Brisbane Laboratory - NATA Site # 20794																	X			
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
	(ASB)																			
29	BH11_0.0-0.12 (ASB)	Jun 01, 2021		Soil	M21-Jn10374	X														
30	BH17_0.0-0.05 (ASB)	May 31, 2021		Soil	M21-Jn10375	X														
31	BH10_0.0-1.0 (ASB)	Jun 01, 2021		Soil	M21-Jn10376	X														
32	BH04_0.0-0.6 (ASB)	Jun 01, 2021		Soil	M21-Jn10377	X														
33	BH08_0.0-0.3 (ASB)	May 31, 2021		Soil	M21-Jn10378	X														
34	BH02_0.0-0.8 (ASB)	Jun 01, 2021		Soil	M21-Jn10379	X														

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Melbourne
6 Monterey Road
Dandenong South VIC 3175
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NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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4/52 Industrial Drive
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Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X														
Brisbane Laboratory - NATA Site # 20794																	X			
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
35	ACM QA01	Jun 01, 2021		Soil	M21-Jn10380	X														
36	BH01_0.2-0.3 (PFAS)	May 31, 2021		Soil	M21-Jn10381											X				X
37	BH02_0.3-0.4 (PFAS)	Jun 01, 2021		Soil	M21-Jn10382											X				X
38	BH03_0.1-0.3 (PFAS)	May 31, 2021		Soil	M21-Jn10383											X				X
39	PF QA01	Jun 01, 2021		Soil	M21-Jn10384											X				X
40	BH02_0.0-0.1	Jun 01, 2021		Soil	M21-Jn10385				X											
41	BH02_0.5-0.6	Jun 01, 2021		Soil	M21-Jn10386				X											
42	BH11_0.0-0.1	Jun 01, 2021		Soil	M21-Jn10387				X											
43	BH11_1.0-1.1	Jun 01, 2021		Soil	M21-Jn10388				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X														
Brisbane Laboratory - NATA Site # 20794																	X			
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
44	BH08_0.8-0.9	May 31, 2021		Soil	M21-Jn10389				X											
45	BH04_0.4-0.5	Jun 01, 2021		Soil	M21-Jn10390				X											
46	BH10_0.0-0.1	Jun 01, 2021		Soil	M21-Jn10391				X											
47	BH10_0.3-0.4	Jun 01, 2021		Soil	M21-Jn10392				X											
48	BH07_0.0-0.1	May 31, 2021		Soil	M21-Jn10393				X											
49	BH05_0.0-0.1	Jun 01, 2021		Soil	M21-Jn10394				X											
50	BH05_0.3-0.4	Jun 01, 2021		Soil	M21-Jn10395				X											
51	BH03_0.0-0.1	May 31, 2021		Soil	M21-Jn10396				X											
52	BH03_1.0-1.1	May 31, 2021		Soil	M21-Jn10397				X											
53	BH09_0.0-0.1	Jun 01, 2021		Soil	M21-Jn10398				X											
54	BH09_0.5-0.6	Jun 01, 2021		Soil	M21-Jn10399				X											

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
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Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X														
Brisbane Laboratory - NATA Site # 20794																	X			
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
55	BH01_0.0-0.1	May 31, 2021		Soil	M21-Jn10400				X											
56	BH01_0.8-0.9	May 31, 2021		Soil	M21-Jn10401				X											
57	BH06_0.0-0.1	Jun 01, 2021		Soil	M21-Jn10402				X											
58	BH06_0.5-0.6	Jun 01, 2021		Soil	M21-Jn10403				X											
59	BH06_0.6-0.7	Jun 01, 2021		Soil	M21-Jn10404				X											
60	BH06_0.7-0.8	Jun 01, 2021		Soil	M21-Jn10405		X													
61	BH01_0.9-1.0 (PFAS)	May 31, 2021		Soil	M21-Jn10406				X											
62	BH01_1.2-1.3 (PFAS)	May 31, 2021		Soil	M21-Jn10407				X											
63	BH02_0.1-0.2 (PFAS)	Jun 01, 2021		Soil	M21-Jn10408				X											

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
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NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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NATA # 1261 Site # 18217

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Sample Detail						Asbestos - W/A guidelines	CANCELLED	Cyanide (total)	HOLD	Silver	Polycyclic Aromatic Hydrocarbons	Metals M8	Phenols (IWRG 621)	BTEX	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Total Recoverable Hydrocarbons	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X														
Brisbane Laboratory - NATA Site # 20794																	X			
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
64	BH02_0.7-0.8 (PFAS)	Jun 01, 2021		Soil	M21-Jn10409				X											
65	BH03_0.3-0.4 (PFAS)	May 31, 2021		Soil	M21-Jn10410				X											
66	BH03_0.9-1.0 (PFAS)	May 31, 2021		Soil	M21-Jn10411				X											
67	BH03_1.1-1.2 (PFAS)	May 31, 2021		Soil	M21-Jn10412				X											
68	TS (SOIL)	Jun 01, 2021		Soil	M21-Jn10413				X											
69	TB (SOIL)	Jun 01, 2021		Soil	M21-Jn10414				X											
70	BH08_0.5-0.6	May 31, 2021		Soil	M21-Jn10415				X											
Test Counts						12	1	2	30	2	4	9	4	6	2	25	2	4	12	4

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

Units

% w/w: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
WA DOH	Reference document for the NEPM. Government of Western Australia, Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to "non-bonded / friable".
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory's remit to assess degree of friability.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

Comments

Jn10377: Sample received was less than the nominal 500mL as recommended in Section 4.10 of the NEPM Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater.

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
N/A	Not applicable

Asbestos Counter/Identifier:

Chamath JHM Annakkage Senior Analyst-Asbestos (NSW)

Authorised by:

Sayeed Abu Senior Analyst-Asbestos (NSW)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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

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



NATA Accredited
Accreditation Number 1261
Site Number 1254

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

Attention: **Sahani Gunatunge**

Report **800730-W**
Project name **ST GEORGE HOSP**
Project ID **60571**
Received Date **Jun 03, 2021**

Client Sample ID			TS (WATER)	TB (WATER)
Sample Matrix			Water	Water
Eurofins Sample No.			M21-Jn10356	M21-Jn10357
Date Sampled			Jun 01, 2021	Jun 01, 2021
Test/Reference	LOR	Unit		
BTEX				
Benzene	0.001	mg/L	120	< 0.001
Toluene	0.001	mg/L	110	< 0.001
Ethylbenzene	0.001	mg/L	110	< 0.001
m&p-Xylenes	0.002	mg/L	120	< 0.002
o-Xylene	0.001	mg/L	120	< 0.001
Xylenes - Total*	0.003	mg/L	120	< 0.003
4-Bromofluorobenzene (surr.)	1	%	102	91

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
JBS&G Suite 2			
BTEX	Melbourne	Jun 04, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
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Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
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Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - W/A guidelines	CANCELLED	Cyanide (total)	HOLD	Silver	Polycyclic Aromatic Hydrocarbons	Metals M8	Phenols (IWRG 621)	BTEX	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Total Recoverable Hydrocarbons	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X														
Brisbane Laboratory - NATA Site # 20794																	X			
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID															
1	BH02_0.2-0.3	Jun 01, 2021		Soil	M21-Jn10346								X		X	X			X	
2	BH02_1.1-1.2	Jun 01, 2021		Soil	M21-Jn10347						X	X		X		X		X		
3	BH11_0.3-0.4	Jun 01, 2021		Soil	M21-Jn10348											X			X	
4	BH11_0.5-0.69	Jun 01, 2021		Soil	M21-Jn10349							X				X				
5	BH08_0.0-0.1	May 31, 2021		Soil	M21-Jn10350							X				X				
6	BH08_0.2-0.3	May 31, 2021		Soil	M21-Jn10351											X	X		X	
7	BH04_0.2-0.3	Jun 01, 2021		Soil	M21-Jn10352			X		X			X			X			X	
8	BH04_0.7-0.8	Jun 01, 2021		Soil	M21-Jn10353						X	X		X		X		X		
9	BH10_0.5-0.6	Jun 01, 2021		Soil	M21-Jn10354											X			X	

Australia

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1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
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Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
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PO Box 60 Wickham 2293
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NATA # 1261 Site # 25079

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

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Address: Level 1, 50 Margaret St
Sydney
NSW 2000
Project Name: ST GEORGE HOSP
Project ID: 60571

Order No.:
Report #: 800730
Phone: 02 8245 0300
Fax:

Received: Jun 3, 2021 9:50 AM
Due: Jun 10, 2021
Priority: 5 Day
Contact Name: Sahani Gunatunge

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	Cyanide (total)	HOLD	Silver	Polycyclic Aromatic Hydrocarbons	Metals M8	Phenols (IWRG 621)	BTEX	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Total Recoverable Hydrocarbons	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X														
Brisbane Laboratory - NATA Site # 20794																	X			
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
10	BH10_1.0-1.1	Jun 01, 2021		Soil	M21-Jn10355							X				X				
11	TS (WATER)	Jun 01, 2021		Water	M21-Jn10356									X						
12	TB (WATER)	Jun 01, 2021		Water	M21-Jn10357									X						
13	BH07_0.2-0.3	May 31, 2021		Soil	M21-Jn10358											X			X	
14	BH07_0.5-0.6	May 31, 2021		Soil	M21-Jn10359							X				X				
15	BH05_0.4-0.5	Jun 01, 2021		Soil	M21-Jn10360											X			X	
16	BH05_0.9-1.0	Jun 01, 2021		Soil	M21-Jn10361							X				X				
17	BH03_0.3-0.4	May 31, 2021		Soil	M21-Jn10362								X		X	X			X	
18	BH03_0.6	May 31, 2021		Soil	M21-Jn10363						X	X		X		X		X		
19	BH09_0.2-0.3	Jun 01, 2021		Soil	M21-Jn10364											X			X	
20	BH01_0.4-0.5	May 31, 2021		Soil	M21-Jn10365											X	X		X	

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
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Perth
46-48 Banksia Road
Welshpool WA 6106
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Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
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Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X														
Brisbane Laboratory - NATA Site # 20794																	X			
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
21	BH01_1.1-1.2	May 31, 2021		Soil	M21-Jn10366						X	X		X		X		X		
22	BH06_0.2-0.3	Jun 01, 2021		Soil	M21-Jn10367			X		X			X			X			X	
23	QA01	Jun 01, 2021		Soil	M21-Jn10368											X			X	
24	BH06_0.0-0.5 (ASB)	Jun 01, 2021		Soil	M21-Jn10369	X														
25	BH01_0.0-0.1 (ASB)	May 31, 2021		Soil	M21-Jn10370	X														
26	BH09_0.0-0.5 (ASB)	Jun 01, 2021		Soil	M21-Jn10371	X														
27	BH03_0.0-0.1 (ASB)	May 31, 2021		Soil	M21-Jn10372	X														
28	BH05_0.0-0.5	Jun 01, 2021		Soil	M21-Jn10373	X														

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

New Zealand

Auckland
35 O'Rourke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
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Christchurch
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Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X														
Brisbane Laboratory - NATA Site # 20794																	X			
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
	(ASB)																			
29	BH11_0.0-0.12 (ASB)	Jun 01, 2021		Soil	M21-Jn10374	X														
30	BH17_0.0-0.05 (ASB)	May 31, 2021		Soil	M21-Jn10375	X														
31	BH10_0.0-1.0 (ASB)	Jun 01, 2021		Soil	M21-Jn10376	X														
32	BH04_0.0-0.6 (ASB)	Jun 01, 2021		Soil	M21-Jn10377	X														
33	BH08_0.0-0.3 (ASB)	May 31, 2021		Soil	M21-Jn10378	X														
34	BH02_0.0-0.8 (ASB)	Jun 01, 2021		Soil	M21-Jn10379	X														

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
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NATA # 1261 Site # 20794

Perth
46-48 Banksia Road
Welshpool WA 6106
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Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
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Christchurch
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Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X														
Brisbane Laboratory - NATA Site # 20794																	X			
Perth Laboratory - NATA Site # 23736																				
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External Laboratory																				
35	ACM QA01	Jun 01, 2021		Soil	M21-Jn10380	X														
36	BH01_0.2-0.3 (PFAS)	May 31, 2021		Soil	M21-Jn10381											X				X
37	BH02_0.3-0.4 (PFAS)	Jun 01, 2021		Soil	M21-Jn10382											X				X
38	BH03_0.1-0.3 (PFAS)	May 31, 2021		Soil	M21-Jn10383											X				X
39	PF QA01	Jun 01, 2021		Soil	M21-Jn10384											X				X
40	BH02_0.0-0.1	Jun 01, 2021		Soil	M21-Jn10385				X											
41	BH02_0.5-0.6	Jun 01, 2021		Soil	M21-Jn10386				X											
42	BH11_0.0-0.1	Jun 01, 2021		Soil	M21-Jn10387				X											
43	BH11_1.0-1.1	Jun 01, 2021		Soil	M21-Jn10388				X											

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Dandenong South VIC 3175
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Site # 1254 & 14271

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Site # 23736

Newcastle
4/52 Industrial Drive
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Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X														
Brisbane Laboratory - NATA Site # 20794																	X			
Perth Laboratory - NATA Site # 23736																				
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External Laboratory																				
44	BH08_0.8-0.9	May 31, 2021		Soil	M21-Jn10389				X											
45	BH04_0.4-0.5	Jun 01, 2021		Soil	M21-Jn10390				X											
46	BH10_0.0-0.1	Jun 01, 2021		Soil	M21-Jn10391				X											
47	BH10_0.3-0.4	Jun 01, 2021		Soil	M21-Jn10392				X											
48	BH07_0.0-0.1	May 31, 2021		Soil	M21-Jn10393				X											
49	BH05_0.0-0.1	Jun 01, 2021		Soil	M21-Jn10394				X											
50	BH05_0.3-0.4	Jun 01, 2021		Soil	M21-Jn10395				X											
51	BH03_0.0-0.1	May 31, 2021		Soil	M21-Jn10396				X											
52	BH03_1.0-1.1	May 31, 2021		Soil	M21-Jn10397				X											
53	BH09_0.0-0.1	Jun 01, 2021		Soil	M21-Jn10398				X											
54	BH09_0.5-0.6	Jun 01, 2021		Soil	M21-Jn10399				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X														
Brisbane Laboratory - NATA Site # 20794																	X			
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
55	BH01_0.0-0.1	May 31, 2021		Soil	M21-Jn10400				X											
56	BH01_0.8-0.9	May 31, 2021		Soil	M21-Jn10401				X											
57	BH06_0.0-0.1	Jun 01, 2021		Soil	M21-Jn10402				X											
58	BH06_0.5-0.6	Jun 01, 2021		Soil	M21-Jn10403				X											
59	BH06_0.6-0.7	Jun 01, 2021		Soil	M21-Jn10404				X											
60	BH06_0.7-0.8	Jun 01, 2021		Soil	M21-Jn10405		X													
61	BH01_0.9-1.0 (PFAS)	May 31, 2021		Soil	M21-Jn10406				X											
62	BH01_1.2-1.3 (PFAS)	May 31, 2021		Soil	M21-Jn10407				X											
63	BH02_0.1-0.2 (PFAS)	Jun 01, 2021		Soil	M21-Jn10408				X											

Australia

Melbourne
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Dandenong South VIC 3175
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Site # 1254 & 14271

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Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X														
Brisbane Laboratory - NATA Site # 20794																	X			
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
64	BH02_0.7-0.8 (PFAS)	Jun 01, 2021		Soil	M21-Jn10409				X											
65	BH03_0.3-0.4 (PFAS)	May 31, 2021		Soil	M21-Jn10410				X											
66	BH03_0.9-1.0 (PFAS)	May 31, 2021		Soil	M21-Jn10411				X											
67	BH03_1.1-1.2 (PFAS)	May 31, 2021		Soil	M21-Jn10412				X											
68	TS (SOIL)	Jun 01, 2021		Soil	M21-Jn10413				X											
69	TB (SOIL)	Jun 01, 2021		Soil	M21-Jn10414				X											
70	BH08_0.5-0.6	May 31, 2021		Soil	M21-Jn10415				X											
Test Counts						12	1	2	30	2	4	9	4	6	2	25	2	4	12	4

General Glossary - Mould

SPORE CLASSIFICATION

WATER INDICATOR: Most commonly associated with indoor mould growth in buildings with long-term water intrusion issues.

BACKGROUND DEBRIS: Background debris is the amount of non-fungal particulate present in the trace including dust, fibres, skin cells, dust mites, and insect parts. A debris rating is assigned each trace from 0 (lowest) to 5 (highest). A higher debris rating means samples are more difficult to analyse, and spores, especially smaller spores like *Aspergillus*/*Penicillium*, may be obscured. Counts with debris ratings of 4 or 5 should be regarded as minimal counts with actual counts assumed to be significantly higher. A further explanation of the debris rating is listed below:

- 1) None Detected. No debris observed.
- 2) Trace. Field of view obscured < 5%. Counts unaffected.
- 3) Light. Field of view obscured 5% to 25%. Counts slightly affected.
- 4) Moderate. Field of view obscured 25% to 75%. Actual counts may be higher than reported counts.
- 5) Heavy. Field of view obscured 75% to 90%. Actual counts may be significantly higher than reported counts.
- 6) Very Heavy. Field of view obscured > 90%. Actual counts may be significantly higher than reported counts.

TERMS

COC	Chain of Custody
fs	Fungal Structures. A collective term for a fragment; or groups of fragments from fungi, including but not limited to conidia, conidiophores, hyphae and spores.
Hyphal Structures	Hyphae, mycelia or fruiting bodies – fragmented or intact
Smut/myxo/peri.	Smuts / myxomycetes / periconia
-like	Spores lacking distinguishable characteristics from other similar spores
N/A	Not applicable
NS	Non-specified
Un-ID	Unidentified Fungal Particulate
Set	Set of 4 agar plates per sample
TNTC	Too Numerous to Count
LOR	Limit of Reporting

DEFINITION OF TERMS

Raw Counts	The number of spores counted by the analyst.
% Analysed	The amount of the trace that was analysed for each individual spore type. If large amounts of any spore type(s) exist, counts may be estimated.
LOR	LOR for Spore Trap is 13 fs/m ³ at 100% trace analysis.

UNITS:

fs/m³	Fungal Structure per cubic metre
fs/cm²	Fungal Structure per square centimetre
cfu	Colony Forming Units
L/min	Litres per minute
g	Gram
min	Minute
%	Percentage

INDOOR AND OUTDOOR COMPARISONS:

There are no current industrial standards regarding permissible levels of airborne fungi that may be present in buildings. It is common for fungal spores to be present in a normal indoor environment. A general guideline that is widely accepted in the industrial hygiene industry is that the types and numbers of mould spores present in the indoor environment should be similar to those present in the outdoor environment. If inside spore counts are significantly higher than outside counts, this may indicate a potential mould problem. The comparison of outdoor and indoor spore types and concentrations is a useful tool in assessing abnormal mould contamination; however, it should not be the sole determining factor in evaluating health risks and remediation strategies.

All samples received in acceptable condition. Information provided by customer includes customer sample ID, location, flow rate and volume. Analytical results are not corrected for field and laboratory blanks. Test results relate only to the items tested and cannot be extrapolated to anything larger than their original intent. This report may not be reproduced, except in full, without written approval by Eurofins Environment Testing Australia Pty Ltd. Eurofins bears no responsibility for client sampling methods and makes no warranty representation regarding the accuracy of client-supplied information in preparing and presenting analytical results. Eurofins maintains liability limited to the cost of analysis; except for Eurofins own wilful misconduct or gross negligence. Interpretation of the analytical results is the sole responsibility of the customer.

Other:

1. Samples were analysed on an "as received" basis.
2. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on results.
3. Spores of *Aspergillus*, *Penicillium*, and others are small with few distinguishing features and therefore can be difficult to differentiate.
4. If % analysed is <100%, spores per m³ is based on extrapolation and not actual count.
5. This report replaces any interim results previously issued.

Quality Control Results

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank									
BTEX									
Benzene			mg/L	< 0.001			0.001	Pass	
Toluene			mg/L	< 0.001			0.001	Pass	
Ethylbenzene			mg/L	< 0.001			0.001	Pass	
m&p-Xylenes			mg/L	< 0.002			0.002	Pass	
o-Xylene			mg/L	< 0.001			0.001	Pass	
Xylenes - Total*			mg/L	< 0.003			0.003	Pass	
LCS - % Recovery									
BTEX									
Benzene			%	107			70-130	Pass	
Toluene			%	96			70-130	Pass	
Ethylbenzene			%	103			70-130	Pass	
m&p-Xylenes			%	105			70-130	Pass	
Xylenes - Total*			%	104			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
BTEX									
				Result 1					
Benzene	M21-Jn09972	NCP	%	95			70-130	Pass	
Toluene	M21-Jn09972	NCP	%	87			70-130	Pass	
Ethylbenzene	M21-Jn09972	NCP	%	90			70-130	Pass	
m&p-Xylenes	M21-Jn09972	NCP	%	87			70-130	Pass	
o-Xylene	M21-Jn09972	NCP	%	87			70-130	Pass	
Xylenes - Total*	M21-Jn09972	NCP	%	87			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
BTEX									
				Result 1	Result 2	RPD			
Benzene	M21-Jn10779	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	M21-Jn10779	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	M21-Jn10779	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	M21-Jn10779	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	M21-Jn10779	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	M21-Jn10779	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	

Comments

Sample Integrity

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

Authorised by:

John Nguyen
Vivian Wang

Analytical Services Manager
Senior Analyst-Volatile (VIC)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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Chain of Custody



PROJECT NO.: 60571		LABORATORY BATCH NO.:	
PROJECT NAME: St George Hosp		SAMPLERS: CL	
DATE NEEDED BY: Standard		QC LEVEL: NEPM (2013)	
PHONE: Sydney 02 8245 0300 Perth 08 9488 0100 Brisbane 07 3112 2688 Melbourne 03 9642 0599 Adelaide 08 8431 7113			
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) <u>Squidung</u> @jbsg.com.au; (3) <u>cl</u> @jbsg.com.au			
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:			

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS		NOTES
						IDENTIFICATION	NEPM/WA	
BH02-010.1	SOIL	1-6		V + E				Temp: 10.4°C
-0.2/0.3								
-0.5/0.6								
-1.1/1.2								
BH11-010.1		1-6						
-0.3/0.4								
-0.5/0.6								
-1.1/1.1								
BH08-010.1		31-5						
-0.3/0.3								
BH04-0.2/0.3		1-6						Facility -0.7/0.8
-0.4/0.5								
-0.7/0.8								
BH0-0.1/0.1								
-0.3/0.4								
-0.5/0.6								
-1.1/1.1								
TS/TB	Water							

RELINQUISHED BY:		METHOD OF SHIPMENT:	
NAME: <u>John</u>	DATE: 1/6/2021	CONSIGNMENT NOTE NO.	RECEIVED BY:
OF: JBS&G		TRANSPORT CO.	NAME: <u>Jeremy</u>
NAME:		CONSIGNMENT NOTE NO.	DATE: 3/6/21
OF:		TRANSPORT CO.	OF: <u>Eurofins</u>
			NAME: <u>Temp: 10.4°C</u>
			DATE:
			OF:

FOR RECEIVING LAB USE ONLY:			
COOLER SEAL - Yes..... No.....	Intact..... Broken.....	COOLER TEMP..... deg C	
COOLER SEAL - Yes..... No.....	Intact..... Broken.....	COOLER TEMP..... deg C	
COOLER SEAL - Yes..... No.....	Intact..... Broken.....	COOLER TEMP..... deg C	

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

800730

Jark

PROJECT NO.: 60571		LABORATORY BATCH NO.:	
PROJECT NAME: ST George Hosiery		SAMPLERS: CL	
DATE NEEDED BY: standard JAT		QC LEVEL: NEPM (2013)	
PHONE: Sydney 02 8245 0300 Perth 08 9488 0100 Brisbane 07 3112 2688 Melbourne 03 9642 0599 Adelaide 08 8431 7113			
SEND REPORT & INVOICE TO: (1) admin@jbsg.com.au; (2) ...@jbsg.com.au; (3) ...@jbsg.com.au			
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL: <i>Quarantine</i>			

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	IDENTIFICATION										TYPE OF ASBESTOS ANALYSIS	NOTES
						TPH/BTEX	PAH	Cyanide	VOC	Phenol	Soil (Sample)	Heavy metals	PCB	PCDD/F	PCB		
BH07 - 0/0.1	31-S	soil		UTI													
- 0.2/0.3																	
- 0.5/0.6																	
BH05 - 0/0.1	1-6																
- 0.3/0.4																	
- 0.6/0.5																	
- 0.9/1																	
BH03 - 0/0.1	31-S																
- 0.3/0.4																	
- 0.6																	
- 1/1.1																	
BH09 - 0/0.1	1-6																
- 0.2/0.3																	
- 0.5/0.6																	
BH01 - 0/0.1	31-S																
- 0.4/0.5																	
- 0.8/0.9																	
- 1.1/1.2																	

RELINQUISHED BY: <i>[Signature]</i>		METHOD OF SHIPMENT:	
NAME:	DATE: 1/6/2021	CONSIGNMENT NOTE NO.	
OF: JBS&G		TRANSPORT CO.	
NAME:	DATE:	CONSIGNMENT NOTE NO.	
OF:		TRANSPORT CO.	

RECEIVED BY:		FOR RECEIVING LAB USE ONLY:	
NAME: <i>[Signature]</i>	DATE: 9:50 AM 3/6/21	COOLER SEAL - Yes..... No..... Intact..... Broken.....	
OF:		COOLER TEMP deg C	
NAME:	DATE:	COOLER SEAL - Yes..... No..... Intact..... Broken.....	
OF:		COOLER TEMP deg C	

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

[illegible]

Eurolins 4 of 5

Chain of Custody



PROJECT NO.: 60571		LABORATORY BATCH NO.:	
PROJECT NAME: 60571		SAMPLERS: CL	
DATE NEEDED BY: 21/06/2021		QC LEVEL: NEPM (2013)	
PHONE: Sydney 02 8245 0300 Perth 08 9488 0100 Brisbane 07 3112 2688 Melbourne 03 9642 0599 Adelaide 08 8431 7113			
SEND REPORT & INVOICE TO: (1) adminsw@jbsg.com.au; (2)@jbsg.com.au; (3)@jbsg.com.au			
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:			

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS		NOTES:
						IDENTIFICATION	NEPM/WA	
BH06-010.5	Soil	1-6		Bag				
BH01-011		31-5						
BH09-010.5		31-6						
BH03-011		31-3						
BH05-010.5		1-6						
BH11-011.2		1-6						
BH07-010.5		31-3						
BH10-011		1-6						
BH04-010.6		1-6						
BH08-010.3		31-5						
BH02-010.3		1-6						
ACM QAO1								
ACM QCO1								

RELINQUISHED BY:		METHOD OF SHIPMENT:	
NAME: JBS&G	DATE: 11/6/2021	CONSIGNMENT NOTE NO.	
OF: JBS&G		TRANSPORT CO.	
NAME:	DATE:	CONSIGNMENT NOTE NO.	
OF:		TRANSPORT CO.	

RECEIVED BY:		FOR RECEIVING LAB USE ONLY:	
NAME: JBS&G	DATE: 11/6/2021	COOLER SEAL - Yes..... No..... Intact..... Broken.....	
OF: JBS&G		COOLER TEMP deg C	
NAME:	DATE:	COOLER SEAL - Yes..... No..... Intact..... Broken.....	
OF:		COOLER TEMP deg C	

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

Quorins 5045

Chain of Custody



PROJECT NO.: 610571		LABORATORY BATCH NO.:	
PROJECT NAME: standard hosp		SAMPLERS: Lynch	
DATE NEEDED BY: standard INT		QC LEVEL: NEPM (2013)	
PHONE: Sydney 02 8245 0300 Perth 08 9488 0100 Brisbane 07 3112 2688 Melbourne 03 9642 0599 Adelaide 08 8431 7113			
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2)@jbsg.com.au; (3)@jbsg.com.au			
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:			

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS		NOTES
						IDENTIFICATION	NEPM/WA	
BH01 - 0.2/0.3	soil	31-5		PEAS JAR + ICE		X		<p>PHAS 28</p> <p>please forward to Environmental</p>
- 0.9/1								
- 1.2/1.3								
BH02 - 0.1/0.2								
- 0.3/0.4								
- 0.7/0.8								
BH03 - 0.1/0.3								
- 0.3/0.4								
- 0.9/1								
- 1.1/1.2								
TS/TB	soil			Vial + ICE		X		
PEQA01								
PEQC01								

RELINQUISHED BY:		METHOD OF SHIPMENT:	
NAME: [Signature]	DATE: 16/12/2011	CONSIGNMENT NOTE NO.	
OF: JBS&G		TRANSPORT CO.	
NAME:	DATE:	CONSIGNMENT NOTE NO.	
OF:		TRANSPORT CO.	

RECEIVED BY:		FOR RECEIVING LAB USE ONLY:	
NAME: Jeremy	DATE: 9150Am 3/6	COOLER SEAL - Yes..... No..... Intact..... Broken.....	
OF:		COOLER TEMP deg C	
NAME:	DATE:	COOLER SEAL - Yes..... No..... Intact..... Broken.....	
OF:		COOLER TEMP deg C	

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

Australia
Melbourne

6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney

Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane

1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth

46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle

4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

New Zealand
Auckland

35 O'Rourke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch

43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name: JBS & G Australia (NSW) P/L
Contact name: Sahani Gunatunge
Project name: ST GEORGE HOSP
Project ID: 60571
Turnaround time: 5 Day
Date/Time received: Jun 3, 2021 9:50 AM
Eurofins reference: 800730

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 10.4 degrees Celsius.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- ✓ Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Received extra sample BH08_0.5-0.6. Missing sample BH06_0.7-0.8.

Contact

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

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Sahani Gunatunge - sgunatunge@jbsg.com.au.

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



NATA Accredited
Accreditation Number 1261
Site Number 1254

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

Attention: **Sahani Gunatunge**

Report **803296-S**
 Project name **ST GEORGE HOSP**
 Project ID **60571**
 Received Date **Jun 16, 2021**

Client Sample ID			BH10_0.5-0.6	BH11_0.3-0.4
Sample Matrix			Soil	Soil
Eurofins Sample No.			M21-Jn31053	M21-Jn31054
Date Sampled			Jun 01, 2021	Jun 01, 2021
Test/Reference	LOR	Unit		
Chromium (hexavalent)	1	mg/kg	< 1	< 1
% Moisture	1	%	13	12

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Chromium (hexavalent) - Method: APHA 3500-Cr Hexavalent Chromium- (Extraction:- USEPA3060)	Melbourne	Jun 16, 2021	28 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Melbourne	Jun 16, 2021	14 Days

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
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Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000
Project Name: ST GEORGE HOSP
Project ID: 60571

Order No.:
Report #: 803296
Phone: 02 8245 0300
Fax:

Received: Jun 16, 2021 5:29 PM
Due: Jun 18, 2021
Priority: 2 Day
Contact Name: Sahani Gunatunge

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Chromium (hexavalent)	Moisture Set
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X
Sydney Laboratory - NATA Site # 18217							
Brisbane Laboratory - NATA Site # 20794							
Perth Laboratory - NATA Site # 23736							
Mayfield Laboratory - NATA Site # 25079							
External Laboratory							
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID		
1	BH10_0.5-0.6	Jun 01, 2021		Soil	M21-Jn31053	X	X
2	BH11_0.3-0.4	Jun 01, 2021		Soil	M21-Jn31054	X	X
Test Counts						2	2

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NC	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

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

Results <10 times the LOR : No Limit

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

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

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M21-Jn30596	NCP	%	35	29	17	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Chromium (hexavalent)	M21-Jn31054	CP	mg/kg	< 1	< 1	<1	30%	Pass	

Comments

Sample Integrity

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

Authorised by:

Emma Beesley
Scott Beddoes

Analytical Services Manager
Senior Analyst-Inorganic (VIC)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000
Project Name: ST GEORGE HOSP
Project ID: 60571

Order No.:
Report #: 803296
Phone: 02 8245 0300
Fax:

Received: Jun 16, 2021 5:29 PM
Due: Jun 18, 2021
Priority: 2 Day
Contact Name: Sahani Gunatunge

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Chromium (hexavalent)	Moisture Set
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X
Sydney Laboratory - NATA Site # 18217							
Brisbane Laboratory - NATA Site # 20794							
Perth Laboratory - NATA Site # 23736							
Mayfield Laboratory - NATA Site # 25079							
External Laboratory							
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID		
1	BH10_0.5-0.6	Jun 01, 2021		Soil	M21-Jn31053	X	X
2	BH11_0.3-0.4	Jun 01, 2021		Soil	M21-Jn31054	X	X
Test Counts						2	2

Ursula Long

From: Sahani Gunatunge <SGunatunge@jbsg.com.au>
Sent: Wednesday, 16 June 2021 5:32 PM
To: John Nguyen
Cc: Ursula Long
Subject: RE: Eurofins Test Results - Report 800730 : Site ST GEORGE HOSP (60571)

Follow Up Flag: Follow up
Flag Status: Flagged

EXTERNAL EMAIL*

Hi John,

Can I please request Chromium (VI) analysis on samples BH10_0.5-0.6 and BH11_0.3-0.4 on 48 hr TAT please.

Kind Regards,
Sahani



Sahani Gunatunge | Environmental Consultant | JBS&G

Sydney | Melbourne | Adelaide | Perth | Brisbane | Canberra | Darwin | Wollongong | Bunbury
Level 1, 50 Margaret Street Sydney NSW 2000

T: 02 8245 0300 | M: 0410 240 607 | E: sgunatunge@jbsg.com.au | W: www.jbsg.com.au

[Contaminated Land](#) | [Groundwater Remediation](#) | [Approvals and Assessments](#) | [Auditing and Compliance](#) | [Hygiene and Hazardous Materials](#) | [Due Diligence and Liability](#) | [Fire Management Planning](#) | [Stakeholder and Risk Management](#)

JBS&G acknowledges the Traditional Owners and custodians on the land we walk, work and live. We pay respect to their cultures, Elders past and present, and in the spirit of reconciliation, we commit to working together for our shared future.

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From: JohnNguyen@eurofins.com <JohnNguyen@eurofins.com>
Sent: Tuesday, 15 June 2021 11:09 AM
To: Sahani Gunatunge <SGunatunge@jbsg.com.au>
Cc: Christian Lynch <clynch@jbsg.com.au>
Subject: Eurofins Test Results - Report 800730 : Site ST GEORGE HOSP (60571)

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

Please find attached results for your project in the subject header.

Kind regards,

Australia
Melbourne

6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney

Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane

1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth

46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

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4/52 Industrial Drive
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NATA # 1261 Site # 25079

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Auckland

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Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch

43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name: JBS & G Australia (NSW) P/L
Contact name: Sahani Gunatunge
Project name: ST GEORGE HOSP
Project ID: 60571
Turnaround time: 2 Day
Date/Time received: Jun 16, 2021 5:29 PM
Eurofins reference: 803296

Sample Information

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

Notes

Contact

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

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Sahani Gunatunge - sgunatunge@jbsg.com.au.

CERTIFICATE OF ANALYSIS 270900

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	S Gunatunge, C Lynch
Address	Level 1, 50 Margaret St, Sydney, NSW, 2000

Sample Details

Your Reference	<u>60571, St George Hospital</u>
Number of Samples	3 Soil
Date samples received	04/06/2021
Date completed instructions received	04/06/2021

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.
 Samples were analysed as received from the client. Results relate specifically to the samples as received.
 Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	11/06/2021
Date of Issue	10/06/2021
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Asbestos Approved By

Analysed by Asbestos Approved Identifier: Lucy Zhu
 Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By

Dragana Tomas, Senior Chemist
 Giovanni Agosti, Group Technical Manager
 Josh Williams, LC Supervisor
 Lucy Zhu, Asbestos Supervisor
 Thomas Beenie, Lab Technician

Authorised By



Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil		
Our Reference		270900-2
Your Reference	UNITS	QC01
Date Sampled		31/05/2021
Type of sample		Soil
Date extracted	-	07/06/2021
Date analysed	-	08/06/2021
TRH C ₆ - C ₉	mg/kg	<25
TRH C ₆ - C ₁₀	mg/kg	<25
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
naphthalene	mg/kg	<1
Total +ve Xylenes	mg/kg	<3
Surrogate aaa-Trifluorotoluene	%	124

svTRH (C10-C40) in Soil		
Our Reference		270900-2
Your Reference	UNITS	QC01
Date Sampled		31/05/2021
Type of sample		Soil
Date extracted	-	07/06/2021
Date analysed	-	07/06/2021
TRH C ₁₀ - C ₁₄	mg/kg	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100
TRH >C ₁₀ -C ₁₆	mg/kg	<50
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50
TRH >C ₁₆ -C ₃₄	mg/kg	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100
Total +ve TRH (>C10-C40)	mg/kg	<50
Surrogate o-Terphenyl	%	89

PAHs in Soil		
Our Reference		270900-2
Your Reference	UNITS	QC01
Date Sampled		31/05/2021
Type of sample		Soil
Date extracted	-	07/06/2021
Date analysed	-	07/06/2021
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	<0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	0.1
Anthracene	mg/kg	<0.1
Fluoranthene	mg/kg	0.2
Pyrene	mg/kg	0.3
Benzo(a)anthracene	mg/kg	0.2
Chrysene	mg/kg	0.2
Benzo(b,j+k)fluoranthene	mg/kg	0.2
Benzo(a)pyrene	mg/kg	0.1
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1
Total +ve PAH's	mg/kg	1.3
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5
Surrogate <i>p</i> -Terphenyl-d14	%	114

Organochlorine Pesticides in soil		
Our Reference		270900-2
Your Reference	UNITS	QC01
Date Sampled		31/05/2021
Type of sample		Soil
Date extracted	-	07/06/2021
Date analysed	-	07/06/2021
alpha-BHC	mg/kg	<0.1
HCB	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1
Surrogate TCMX	%	104

PCBs in Soil		
Our Reference		270900-2
Your Reference	UNITS	QC01
Date Sampled		31/05/2021
Type of sample		Soil
Date extracted	-	07/06/2021
Date analysed	-	07/06/2021
Aroclor 1016	mg/kg	<0.1
Aroclor 1221	mg/kg	<0.1
Aroclor 1232	mg/kg	<0.1
Aroclor 1242	mg/kg	<0.1
Aroclor 1248	mg/kg	<0.1
Aroclor 1254	mg/kg	<0.1
Aroclor 1260	mg/kg	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1
Surrogate TCMX	%	104

Acid Extractable metals in soil		
Our Reference		270900-2
Your Reference	UNITS	QC01
Date Sampled		31/05/2021
Type of sample		Soil
Date prepared	-	08/06/2021
Date analysed	-	10/06/2021
Arsenic	mg/kg	<4
Cadmium	mg/kg	<0.4
Chromium	mg/kg	16
Copper	mg/kg	49
Lead	mg/kg	20
Mercury	mg/kg	<0.1
Nickel	mg/kg	11
Zinc	mg/kg	52

Moisture			
Our Reference		270900-2	270900-3
Your Reference	UNITS	QC01	PF QC01
Date Sampled		31/05/2021	31/05/2021
Type of sample		Soil	Soil
Date prepared	-	07/06/2021	07/06/2021
Date analysed	-	08/06/2021	08/06/2021
Moisture	%	13	9.6

Asbestos ID - soils NEPM - ASB-001		
Our Reference		270900-1
Your Reference	UNITS	ACM QC01
Date Sampled		31/05/2021
Type of sample		Soil
Date analysed	-	06/06/2021
Sample mass tested	g	679.01
Sample Description	-	Beige coarse-grained soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected
Total Asbestos ^{#1}	g/kg	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected
ACM >7mm Estimation*	g	—
FA and AF Estimation*	g	—
ACM >7mm Estimation*	%(w/w)	<0.01
FA and AF Estimation*#2	%(w/w)	<0.001

PFAS in Soils Extended		
Our Reference		270900-3
Your Reference	UNITS	PF QC01
Date Sampled		31/05/2021
Type of sample		Soil
Date prepared	-	07/06/2021
Date analysed	-	07/06/2021
Perfluorobutanesulfonic acid	µg/kg	<0.1
Perfluoropentanesulfonic acid	µg/kg	<0.1
Perfluorohexanesulfonic acid - PFHxS	µg/kg	0.1
Perfluoroheptanesulfonic acid	µg/kg	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	0.6
Perfluorodecanesulfonic acid	µg/kg	<0.2
Perfluorobutanoic acid	µg/kg	<0.2
Perfluoropentanoic acid	µg/kg	<0.2
Perfluorohexanoic acid	µg/kg	<0.1
Perfluoroheptanoic acid	µg/kg	<0.1
Perfluorooctanoic acid PFOA	µg/kg	0.1
Perfluorononanoic acid	µg/kg	<0.1
Perfluorodecanoic acid	µg/kg	<0.5
Perfluoroundecanoic acid	µg/kg	<0.5
Perfluorododecanoic acid	µg/kg	<0.5
Perfluorotridecanoic acid	µg/kg	<0.5
Perfluorotetradecanoic acid	µg/kg	<5
4:2 FTS	µg/kg	<0.1
6:2 FTS	µg/kg	<0.1
8:2 FTS	µg/kg	<0.2
10:2 FTS	µg/kg	<0.2
Perfluorooctane sulfonamide	µg/kg	<1
N-Methyl perfluorooctane sulfonamide	µg/kg	<1
N-Ethyl perfluorooctanesulfonamide	µg/kg	<1
N-Me perfluorooctanesulfonamid oethanol	µg/kg	<1
N-Et perfluorooctanesulfonamid oethanol	µg/kg	<5
MePerfluorooctanesulf- amid oacetic acid	µg/kg	<0.2
EtPerfluorooctanesulf amid oacetic acid	µg/kg	<0.2
Surrogate ¹³ C ₈ PFOS	%	102
Surrogate ¹³ C ₂ PFOA	%	97
Extracted ISTD ¹³ C ₃ PFBS	%	94
Extracted ISTD ¹⁸ O ₂ PFHxS	%	101
Extracted ISTD ¹³ C ₄ PFOS	%	93
Extracted ISTD ¹³ C ₄ PFBA	%	98

PFAS in Soils Extended		
Our Reference		270900-3
Your Reference	UNITS	PF QC01
Date Sampled		31/05/2021
Type of sample		Soil
Extracted ISTD ¹³ C ₃ PFPeA	%	98
Extracted ISTD ¹³ C ₂ PFHxA	%	97
Extracted ISTD ¹³ C ₄ PFHpA	%	100
Extracted ISTD ¹³ C ₄ PFOA	%	102
Extracted ISTD ¹³ C ₅ PFNA	%	108
Extracted ISTD ¹³ C ₂ PFDA	%	115
Extracted ISTD ¹³ C ₂ PFUnDA	%	133
Extracted ISTD ¹³ C ₂ PFDoDA	%	121
Extracted ISTD ¹³ C ₂ PFTeDA	%	106
Extracted ISTD ¹³ C ₂ 4:2FTS	%	92
Extracted ISTD ¹³ C ₂ 6:2FTS	%	112
Extracted ISTD ¹³ C ₂ 8:2FTS	%	138
Extracted ISTD ¹³ C ₈ FOSA	%	111
Extracted ISTD d ₃ N MeFOSA	%	103
Extracted ISTD d ₅ N EtFOSA	%	103
Extracted ISTD d ₇ N MeFOSE	%	108
Extracted ISTD d ₉ N EtFOSE	%	103
Extracted ISTD d ₃ N MeFOSAA	%	121
Extracted ISTD d ₅ N EtFOSAA	%	115
Total Positive PFHxS & PFOS	µg/kg	0.7
Total Positive PFOS & PFOA	µg/kg	0.8
Total Positive PFAS	µg/kg	0.9

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
ASB-001	<p>Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg (0.01% w/w) as per Australian Standard AS4964-2004.</p> <p>Results reported denoted with * are outside our scope of NATA accreditation.</p> <p>NOTE #1 Total Asbestos g/kg was analysed and reported as per Australian Standard AS4964 (This is the sum of ACM >7mm, <7mm and FA/AF)</p> <p>NOTE #2 The screening level of 0.001% w/w asbestos in soil for FA and AF only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres.</p> <p>Estimation = Estimated asbestos weight</p> <p>Results reported with "--" is equivalent to no visible asbestos identified using Polarised Light microscopy and Dispersion Staining Techniques.</p>
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-020	<p>Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.</p> <p>F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.</p>
Org-020	<p>Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.</p> <p>F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.</p> <p>Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).</p>
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.

Method ID	Methodology Summary
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL' values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero' values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL' values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

Method ID	Methodology Summary
Org-029	<p>Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3.</p> <p>Analysis is undertaken with LC-MS/MS.</p> <p>PFAS results include the sum of branched and linear isomers where applicable.</p> <p>Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.3 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components.</p> <p>Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.</p>

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date extracted	-			07/06/2021	2	07/06/2021	07/06/2021		07/06/2021	[NT]
Date analysed	-			08/06/2021	2	08/06/2021	08/06/2021		08/06/2021	[NT]
TRH C ₆ - C ₉	mg/kg	25	Org-023	<25	2	<25	<25	0	114	[NT]
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	<25	2	<25	<25	0	114	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	2	<0.2	<0.2	0	112	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	2	<0.5	<0.5	0	128	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	2	<1	<1	0	108	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	2	<2	<2	0	112	[NT]
o-Xylene	mg/kg	1	Org-023	<1	2	<1	<1	0	109	[NT]
naphthalene	mg/kg	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	119	2	124	115	8	132	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date extracted	-			07/06/2021	2	07/06/2021	07/06/2021		07/06/2021	[NT]
Date analysed	-			07/06/2021	2	07/06/2021	07/06/2021		07/06/2021	[NT]
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-020	<50	2	<50	<50	0	113	[NT]
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-020	<100	2	<100	<100	0	79	[NT]
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	<100	2	<100	<100	0	69	[NT]
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-020	<50	2	<50	<50	0	113	[NT]
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-020	<100	2	<100	<100	0	79	[NT]
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-020	<100	2	<100	<100	0	69	[NT]
Surrogate o-Terphenyl	%		Org-020	82	2	89	85	5	102	[NT]

QUALITY CONTROL: PAHs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date extracted	-			07/06/2021	2	07/06/2021	07/06/2021		07/06/2021	[NT]
Date analysed	-			07/06/2021	2	07/06/2021	07/06/2021		07/06/2021	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	105	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	92	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	100	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	2	0.1	<0.1	0	109	[NT]
Anthracene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	2	0.2	0.2	0	93	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	2	0.3	0.2	40	96	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	2	0.2	0.2	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	2	0.2	0.1	67	78	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	2	0.2	0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	2	0.1	0.1	0	93	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	116	2	114	112	2	110	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date extracted	-			07/06/2021	2	07/06/2021	07/06/2021		07/06/2021	[NT]
Date analysed	-			07/06/2021	2	07/06/2021	07/06/2021		07/06/2021	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	97	[NT]
HCB	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	100	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	87	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	108	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	105	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	111	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	107	[NT]
Endrin	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	111	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	99	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	80	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	93	2	104	103	1	88	[NT]

Client Reference: 60571, St George Hospital

QUALITY CONTROL: PCBs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date extracted	-			07/06/2021	2	07/06/2021	07/06/2021		07/06/2021	[NT]
Date analysed	-			07/06/2021	2	07/06/2021	07/06/2021		07/06/2021	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	<0.1	2	<0.1	<0.1	0	118	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	93	2	104	103	1	88	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			08/06/2021	2	08/06/2021	08/06/2021		08/06/2021	[NT]
Date analysed	-			10/06/2021	2	10/06/2021	10/06/2021		10/06/2021	[NT]
Arsenic	mg/kg	4	Metals-020	<4	2	<4	<4	0	102	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	2	<0.4	<0.4	0	95	[NT]
Chromium	mg/kg	1	Metals-020	<1	2	16	12	29	100	[NT]
Copper	mg/kg	1	Metals-020	<1	2	49	37	28	98	[NT]
Lead	mg/kg	1	Metals-020	<1	2	20	19	5	98	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	2	<0.1	<0.1	0	112	[NT]
Nickel	mg/kg	1	Metals-020	<1	2	11	11	0	97	[NT]
Zinc	mg/kg	1	Metals-020	<1	2	52	45	14	98	[NT]

QUALITY CONTROL: PFAS in Soils Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date prepared	-			07/06/2021	[NT]	[NT]	[NT]	[NT]	07/06/2021	[NT]
Date analysed	-			07/06/2021	[NT]	[NT]	[NT]	[NT]	07/06/2021	[NT]
Perfluorobutanesulfonic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Perfluoropentanesulfonic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Perfluoroheptanesulfonic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	90	[NT]
Perfluorodecanesulfonic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	97	[NT]
Perfluorobutanoic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	96	[NT]
Perfluoropentanoic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	101	[NT]
Perfluorohexanoic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Perfluoroheptanoic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Perfluorononanoic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Perfluorodecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	93	[NT]
Perfluoroundecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	92	[NT]
Perfluorododecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	100	[NT]
Perfluorotridecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	91	[NT]
Perfluorotetradecanoic acid	µg/kg	5	Org-029	<5	[NT]	[NT]	[NT]	[NT]	101	[NT]
4:2 FTS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
6:2 FTS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	97	[NT]
8:2 FTS	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	100	[NT]
10:2 FTS	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	88	[NT]
Perfluorooctane sulfonamide	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
N-Methyl perfluorooctane sulfonamide	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
N-Ethyl perfluorooctanesulfonamide	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	97	[NT]
N-Me perfluorooctanesulfonamidethanol	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	110	[NT]
N-Et perfluorooctanesulfonamidethanol	µg/kg	5	Org-029	<5	[NT]	[NT]	[NT]	[NT]	103	[NT]
MePerfluorooctanesulfonamidacetic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	90	[NT]
EtPerfluorooctanesulfonamidacetic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	104	[NT]
Surrogate ¹³ C ₈ PFOS	%		Org-029	98	[NT]	[NT]	[NT]	[NT]	91	[NT]
Surrogate ¹³ C ₂ PFOA	%		Org-029	108	[NT]	[NT]	[NT]	[NT]	103	[NT]

QUALITY CONTROL: PFAS in Soils Extended					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Extracted ISTD ¹³ C ₃ PFBS	%		Org-029	95	[NT]	[NT]	[NT]	[NT]	103	[NT]
Extracted ISTD ¹⁸ O ₂ PFHxS	%		Org-029	95	[NT]	[NT]	[NT]	[NT]	99	[NT]
Extracted ISTD ¹³ C ₄ PFOS	%		Org-029	93	[NT]	[NT]	[NT]	[NT]	104	[NT]
Extracted ISTD ¹³ C ₄ PFBA	%		Org-029	101	[NT]	[NT]	[NT]	[NT]	106	[NT]
Extracted ISTD ¹³ C ₃ PFPeA	%		Org-029	102	[NT]	[NT]	[NT]	[NT]	101	[NT]
Extracted ISTD ¹³ C ₂ PFHxA	%		Org-029	93	[NT]	[NT]	[NT]	[NT]	104	[NT]
Extracted ISTD ¹³ C ₄ PFHpA	%		Org-029	98	[NT]	[NT]	[NT]	[NT]	107	[NT]
Extracted ISTD ¹³ C ₄ PFOA	%		Org-029	102	[NT]	[NT]	[NT]	[NT]	107	[NT]
Extracted ISTD ¹³ C ₅ PFNA	%		Org-029	106	[NT]	[NT]	[NT]	[NT]	115	[NT]
Extracted ISTD ¹³ C ₂ PFDA	%		Org-029	105	[NT]	[NT]	[NT]	[NT]	113	[NT]
Extracted ISTD ¹³ C ₂ PFUnDA	%		Org-029	104	[NT]	[NT]	[NT]	[NT]	123	[NT]
Extracted ISTD ¹³ C ₂ PFDoDA	%		Org-029	101	[NT]	[NT]	[NT]	[NT]	108	[NT]
Extracted ISTD ¹³ C ₂ PFTeDA	%		Org-029	104	[NT]	[NT]	[NT]	[NT]	107	[NT]
Extracted ISTD ¹³ C ₂ 4:2FTS	%		Org-029	97	[NT]	[NT]	[NT]	[NT]	112	[NT]
Extracted ISTD ¹³ C ₂ 6:2FTS	%		Org-029	113	[NT]	[NT]	[NT]	[NT]	128	[NT]
Extracted ISTD ¹³ C ₂ 8:2FTS	%		Org-029	109	[NT]	[NT]	[NT]	[NT]	120	[NT]
Extracted ISTD ¹³ C ₈ FOSA	%		Org-029	106	[NT]	[NT]	[NT]	[NT]	109	[NT]
Extracted ISTD d ₃ N MeFOSA	%		Org-029	96	[NT]	[NT]	[NT]	[NT]	104	[NT]
Extracted ISTD d ₅ N EtFOSA	%		Org-029	94	[NT]	[NT]	[NT]	[NT]	106	[NT]
Extracted ISTD d ₇ N MeFOSE	%		Org-029	96	[NT]	[NT]	[NT]	[NT]	103	[NT]

QUALITY CONTROL: PFAS in Soils Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Extracted ISTD d ₉ N EtFOSE	%		Org-029	98	[NT]	[NT]	[NT]	[NT]	101	[NT]
Extracted ISTD d ₃ N MeFOSAA	%		Org-029	111	[NT]	[NT]	[NT]	[NT]	123	[NT]
Extracted ISTD d ₅ N EtFOSAA	%		Org-029	95	[NT]	[NT]	[NT]	[NT]	102	[NT]

Result Definitions	
NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Asbestos-ID in soil: NEPM

This report is consistent with the reporting recommendations in the National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013. This is reported outside our scope of NATA accreditation.

08282

CHAIN OF CUSTODY

EnviroLab 1 of 1



PROJECT NO.: 60571						LABORATORY BATCH NO.:																																																																									
PROJECT NAME: St George Hospital						SAMPLERS: CL																																																																									
DATE NEEDED BY: Standard						QC LEVEL: NEPM (2013)																																																																									
PHONE: Sydney: 02 8245 0300 Perth: 08 9488 0100 Brisbane: 07 3112 2688																																																																															
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) sguna@jbsg.com.au; (3) cleneh@jbsg.com.au																																																																															
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:						<table border="1"> <tr> <th colspan="2">TYPE OF ASBESTOS ANALYSIS</th> </tr> <tr> <th>IDENTIFICATION</th> <th>NEPM/WA</th> </tr> </table>										TYPE OF ASBESTOS ANALYSIS		IDENTIFICATION	NEPM/WA																																																												
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SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	28 PRAS	JB2	Asbestos																																																																							
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<div style="text-align: right;"> <p>Chatswood NSW 2017 Ph: (02) 9910 6260</p> <p>Job No: 270900</p> <p>Date Received: 04/06/21</p> <p>Time Received: 1250</p> <p>Received By: CH</p> <p>Temp: Cool/Ambient</p> <p>Cooling: Ice/Icepack</p> <p>Security: Intact/Broken/None</p> </div>																																																																															
RELINQUISHED BY:				METHOD OF SHIPMENT:				RECEIVED BY:				FOR RECEIVING LAB USE ONLY:																																																																			
NAME: [Signature]		DATE: 1/6/2021		CONSIGNMENT NOTE NO.		TRANSPORT CO.		NAME: Christine Ellis		DATE: 12/06/21		COOLER SEAL - Yes..... No..... Intact..... Broken.....																																																																			
OF: JBS&G				CONSIGNMENT NOTE NO.		TRANSPORT CO.		NAME:		DATE:		COOLER TEMP deg C																																																																			
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OF:				CONSIGNMENT NOTE NO.		TRANSPORT CO.		NAME:		DATE:		COOLER TEMP deg C																																																																			

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

IMSO Forms013 - Chain of Custody - Generic

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



NATA Accredited
Accreditation Number 1261
Site Number 18217

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

Attention: **Sahani Gunatunge**

Report **802339-W**
Project name **ST GEORGE HOSPITAL DSI**
Project ID **60571**
Received Date **Jun 10, 2021**

Client Sample ID			BH01	BH06	BH09	BLANK
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S21-Jn23562	S21-Jn23563	S21-Jn23564	S21-Jn23565
Date Sampled			Jun 10, 2021	Jun 10, 2021	Jun 10, 2021	Jun 10, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	< 0.02	-
TRH C10-C14	0.05	mg/L	< 0.05	0.05	< 0.05	-
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1	< 0.1	-
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	-
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	< 0.1	< 0.1	-
Naphthalene ^{N02}	0.01	mg/L	< 0.01	< 0.01	< 0.01	-
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	< 0.02	-
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	< 0.02	< 0.02	-
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	< 0.05	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	< 0.05	< 0.05	< 0.05	-
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1	< 0.1	-
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	-
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	< 0.1	< 0.1	-
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
2-Butanone (MEK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
2-Propanone (Acetone)	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	-

Client Sample ID			BH01 Water S21-Jn23562 Jun 10, 2021	BH06 Water S21-Jn23563 Jun 10, 2021	BH09 Water S21-Jn23564 Jun 10, 2021	BLANK Water S21-Jn23565 Jun 10, 2021
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Bromoform	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Bromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Chloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.005	-
Chloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Dichlorodifluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Iodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Styrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Vinyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	-
Total MAH*	0.003	mg/L	< 0.003	< 0.003	< 0.003	-
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	-
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	-
4-Bromofluorobenzene (surr.)	1	%	112	114	115	-
Toluene-d8 (surr.)	1	%	117	117	112	-
Polycyclic Aromatic Hydrocarbons (Trace level)						
Acenaphthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Acenaphthylene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Benzo(a)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Benzo(a)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Benzo(b&j)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Benzo(g,h,i)perylene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Benzo(k)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Chrysene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Dibenz(a,h)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-

Client Sample ID			BH01 Water	BH06 Water	BH09 Water	BLANK Water
Sample Matrix			S21-Jn23562	S21-Jn23563	S21-Jn23564	S21-Jn23565
Eurofins Sample No.			Jun 10, 2021	Jun 10, 2021	Jun 10, 2021	Jun 10, 2021
Date Sampled						
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons (Trace level)						
Fluorene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Indeno(1.2.3-cd)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Naphthalene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Phenanthrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Total PAH*	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
2-Fluorobiphenyl (surr.)	1	%	79	65	91	-
p-Terphenyl-d14 (surr.)	1	%	105	84	56	-
pH (at 25 °C)	0.1	pH Units	5.8	5.6	4.2	-
Heavy Metals						
Arsenic (filtered)	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Cadmium (filtered)	0.0002	mg/L	< 0.0002	< 0.0002	0.0004	-
Chromium (filtered)	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Copper (filtered)	0.001	mg/L	0.006	0.002	0.006	-
Lead (filtered)	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Mercury (filtered)	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	-
Nickel (filtered)	0.001	mg/L	0.024	< 0.001	0.009	-
Zinc (filtered)	0.005	mg/L	0.065	0.028	0.16	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.15	< 0.15	< 0.15	< 0.15
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	0.02	< 0.01	0.03	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	0.04	0.01	0.03	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	0.01	< 0.01	0.02	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	^{NO9} 0.02	< 0.01	0.02	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTeDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	121	145	60	116
13C5-PFPeA (surr.)	1	%	85	114	58	111
13C5-PFHxA (surr.)	1	%	105	127	69	127
13C4-PFHpA (surr.)	1	%	101	109	63	104
13C8-PFOA (surr.)	1	%	112	109	76	98
13C5-PFNA (surr.)	1	%	176	181	118	144
13C6-PFDA (surr.)	1	%	132	110	82	94
13C2-PFUnDA (surr.)	1	%	95	106	80	85
13C2-PFDoDA (surr.)	1	%	160	198	124	119
13C2-PFTeDA (surr.)	1	%	142	INT	139	105
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			BH01 Water	BH06 Water	BH09 Water	BLANK Water
Sample Matrix			S21-Jn23562	S21-Jn23563	S21-Jn23564	S21-Jn23565
Eurofins Sample No.			Jun 10, 2021	Jun 10, 2021	Jun 10, 2021	Jun 10, 2021
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	120	117	89	101
D3-N-MeFOSA (surr.)	1	%	127	162	128	127
D5-N-EtFOSA (surr.)	1	%	59	72	53	43
D7-N-MeFOSE (surr.)	1	%	86	102	69	80
D9-N-EtFOSE (surr.)	1	%	78	116	73	76
D5-N-EtFOSAA (surr.)	1	%	40	19	51	91
D3-N-MeFOSAA (surr.)	1	%	124	59	138	INT
Perfluoroalkyl sulfonic acids (PFSA's)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	0.04	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	0.03	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	^{N09} 0.03	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	^{N09} 0.40	^{N09} 0.02	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	150	146	119	130
18O2-PFHxS (surr.)	1	%	103	100	96	108
13C8-PFOS (surr.)	1	%	125	118	94	107
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTS (surr.)	1	%	108	111	62	106
13C2-6:2 FTSA (surr.)	1	%	94	82	37	59
13C2-8:2 FTSA (surr.)	1	%	71	61	32	43
13C2-10:2 FTSA (surr.)	1	%	73	76	47	46
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.4	0.02	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.02	< 0.01	0.02	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.42	0.02	0.02	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	0.53	< 0.15	< 0.15	< 0.15
Sum of PFASs (n=30)*	0.1	ug/L	0.59	< 0.15	< 0.15	< 0.15

Client Sample ID			TRIP SPIKE	TRIP BLANK	QA01
Sample Matrix			Water	Water	Water
Eurofins Sample No.			S21-Jn23566	S21-Jn23567	S21-Jn23568
Date Sampled			Jun 10, 2021	Jun 10, 2021	Jun 10, 2021
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons					
TRH C6-C9	0.02	mg/L	-	-	< 0.02
TRH C10-C14	0.05	mg/L	-	-	< 0.05
TRH C15-C28	0.1	mg/L	-	-	< 0.1
TRH C29-C36	0.1	mg/L	-	-	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	-	-	< 0.1
Naphthalene ^{N02}	0.01	mg/L	-	-	< 0.01
TRH C6-C10	0.02	mg/L	-	-	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	-	-	< 0.02
TRH >C10-C16	0.05	mg/L	-	-	< 0.05
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	-	-	< 0.05
TRH >C16-C34	0.1	mg/L	-	-	< 0.1
TRH >C34-C40	0.1	mg/L	-	-	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	-	-	< 0.1
Volatile Organics					
1.1-Dichloroethane	0.001	mg/L	-	-	< 0.001
1.1-Dichloroethene	0.001	mg/L	-	-	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	-	-	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	-	-	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	-	-	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	-	-	< 0.001
1.2-Dibromoethane	0.001	mg/L	-	-	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	-	-	< 0.001
1.2-Dichloroethane	0.001	mg/L	-	-	< 0.001
1.2-Dichloropropane	0.001	mg/L	-	-	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	-	-	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	-	-	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	-	-	< 0.001
1.3-Dichloropropane	0.001	mg/L	-	-	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	-	-	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	-	-	< 0.001
2-Butanone (MEK)	0.001	mg/L	-	-	< 0.001
2-Propanone (Acetone)	0.001	mg/L	-	-	< 0.001
4-Chlorotoluene	0.001	mg/L	-	-	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	-	-	< 0.001
Allyl chloride	0.001	mg/L	-	-	< 0.001
Benzene	0.001	mg/L	-	-	< 0.001
Bromobenzene	0.001	mg/L	-	-	< 0.001
Bromochloromethane	0.001	mg/L	-	-	< 0.001
Bromodichloromethane	0.001	mg/L	-	-	< 0.001
Bromoform	0.001	mg/L	-	-	< 0.001
Bromomethane	0.001	mg/L	-	-	< 0.001
Carbon disulfide	0.001	mg/L	-	-	< 0.001
Carbon Tetrachloride	0.001	mg/L	-	-	< 0.001
Chlorobenzene	0.001	mg/L	-	-	< 0.001
Chloroethane	0.001	mg/L	-	-	< 0.001
Chloroform	0.005	mg/L	-	-	< 0.005
Chloromethane	0.001	mg/L	-	-	< 0.001
cis-1.2-Dichloroethene	0.001	mg/L	-	-	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	-	-	< 0.001

Client Sample ID			TRIP SPIKE	TRIP BLANK	QA01
Sample Matrix			Water	Water	Water
Eurofins Sample No.			S21-Jn23566	S21-Jn23567	S21-Jn23568
Date Sampled			Jun 10, 2021	Jun 10, 2021	Jun 10, 2021
Test/Reference	LOR	Unit			
Volatile Organics					
Dibromochloromethane	0.001	mg/L	-	-	< 0.001
Dibromomethane	0.001	mg/L	-	-	< 0.001
Dichlorodifluoromethane	0.001	mg/L	-	-	< 0.001
Ethylbenzene	0.001	mg/L	-	-	< 0.001
Iodomethane	0.001	mg/L	-	-	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	-	-	< 0.001
m&p-Xylenes	0.002	mg/L	-	-	< 0.002
Methylene Chloride	0.001	mg/L	-	-	< 0.001
o-Xylene	0.001	mg/L	-	-	< 0.001
Styrene	0.001	mg/L	-	-	< 0.001
Tetrachloroethene	0.001	mg/L	-	-	< 0.001
Toluene	0.001	mg/L	-	-	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	-	-	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	-	-	< 0.001
Trichloroethene	0.001	mg/L	-	-	< 0.001
Trichlorofluoromethane	0.001	mg/L	-	-	< 0.001
Vinyl chloride	0.001	mg/L	-	-	< 0.001
Xylenes - Total*	0.003	mg/L	-	-	< 0.003
Total MAH*	0.003	mg/L	-	-	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	-	-	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	-	-	< 0.005
4-Bromofluorobenzene (surr.)	1	%	-	-	117
Toluene-d8 (surr.)	1	%	-	-	113
Polycyclic Aromatic Hydrocarbons (Trace level)					
Acenaphthene	0.00001	mg/L	-	-	< 0.00001
Acenaphthylene	0.00001	mg/L	-	-	< 0.00001
Anthracene	0.00001	mg/L	-	-	< 0.00001
Benz(a)anthracene	0.00001	mg/L	-	-	< 0.00001
Benzo(a)pyrene	0.00001	mg/L	-	-	< 0.00001
Benzo(b&j)fluoranthene	0.00001	mg/L	-	-	< 0.00001
Benzo(g,h,i)perylene	0.00001	mg/L	-	-	< 0.00001
Benzo(k)fluoranthene	0.00001	mg/L	-	-	< 0.00001
Chrysene	0.00001	mg/L	-	-	< 0.00001
Dibenz(a,h)anthracene	0.00001	mg/L	-	-	< 0.00001
Fluoranthene	0.00001	mg/L	-	-	< 0.00001
Fluorene	0.00001	mg/L	-	-	< 0.00001
Indeno(1.2.3-cd)pyrene	0.00001	mg/L	-	-	< 0.00001
Naphthalene	0.00001	mg/L	-	-	< 0.00001
Phenanthrene	0.00001	mg/L	-	-	< 0.00001
Pyrene	0.00001	mg/L	-	-	< 0.00001
Total PAH*	0.00001	mg/L	-	-	< 0.00001
2-Fluorobiphenyl (surr.)	1	%	-	-	81
p-Terphenyl-d14 (surr.)	1	%	-	-	60
pH (at 25 °C)	0.1	pH Units	-	-	6.0

Client Sample ID			TRIP SPIKE	TRIP BLANK	QA01
Sample Matrix			Water	Water	Water
Eurofins Sample No.			S21-Jn23566	S21-Jn23567	S21-Jn23568
Date Sampled			Jun 10, 2021	Jun 10, 2021	Jun 10, 2021
Test/Reference	LOR	Unit			
Heavy Metals					
Arsenic (filtered)	0.001	mg/L	-	-	< 0.001
Cadmium (filtered)	0.0002	mg/L	-	-	< 0.0002
Chromium (filtered)	0.001	mg/L	-	-	< 0.001
Copper (filtered)	0.001	mg/L	-	-	0.007
Lead (filtered)	0.001	mg/L	-	-	< 0.001
Mercury (filtered)	0.0001	mg/L	-	-	< 0.0001
Nickel (filtered)	0.001	mg/L	-	-	0.024
Zinc (filtered)	0.005	mg/L	-	-	0.077
Perfluoroalkyl carboxylic acids (PFCAs)					
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	-	-	< 0.15
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	-	-	0.02
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	-	-	0.05
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	-	-	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	-	-	^{N09} 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	-	-	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	-	-	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	-	-	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	-	-	< 0.01
Perfluorotridecanoic acid (PFTeDA) ^{N15}	0.01	ug/L	-	-	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	-	-	< 0.01
13C4-PFBA (surr.)	1	%	-	-	106
13C5-PFPeA (surr.)	1	%	-	-	94
13C5-PFHxA (surr.)	1	%	-	-	102
13C4-PFHpA (surr.)	1	%	-	-	95
13C8-PFOA (surr.)	1	%	-	-	103
13C5-PFNA (surr.)	1	%	-	-	143
13C6-PFDA (surr.)	1	%	-	-	112
13C2-PFUnDA (surr.)	1	%	-	-	90
13C2-PFDoDA (surr.)	1	%	-	-	115
13C2-PFTeDA (surr.)	1	%	-	-	85
Perfluoroalkyl sulfonamido substances					
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	-	-	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	-	-	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	-	-	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	-	-	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	-	-	< 0.05
N-ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	-	-	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	-	-	< 0.05
13C8-FOSA (surr.)	1	%	-	-	123
D3-N-MeFOSA (surr.)	1	%	-	-	109
D5-N-EtFOSA (surr.)	1	%	-	-	47
D7-N-MeFOSE (surr.)	1	%	-	-	78
D9-N-EtFOSE (surr.)	1	%	-	-	76
D5-N-EtFOSAA (surr.)	1	%	-	-	28
D3-N-MeFOSAA (surr.)	1	%	-	-	85

Client Sample ID			TRIP SPIKE	TRIP BLANK	QA01
Sample Matrix			Water	Water	Water
Eurofins Sample No.			S21-Jn23566	S21-Jn23567	S21-Jn23568
Date Sampled			Jun 10, 2021	Jun 10, 2021	Jun 10, 2021
Test/Reference	LOR	Unit			
Perfluoroalkyl sulfonic acids (PFASs)					
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	-	-	0.04
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	-	-	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	-	-	0.02
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	-	-	N090.03
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	-	-	N090.39
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	-	-	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	-	-	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	-	-	< 0.01
13C3-PFBS (surr.)	1	%	-	-	125
18O2-PFHxS (surr.)	1	%	-	-	99
13C8-PFOS (surr.)	1	%	-	-	116
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	-	-	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	-	-	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	-	-	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	-	-	< 0.01
13C2-4:2 FTS (surr.)	1	%	-	-	94
13C2-6:2 FTSA (surr.)	1	%	-	-	73
13C2-8:2 FTSA (surr.)	1	%	-	-	59
13C2-10:2 FTSA (surr.)	1	%	-	-	54
PFASs Summations					
Sum (PFHxS + PFOS)*	0.01	ug/L	-	-	0.39
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	-	-	0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	-	-	0.4
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	-	-	0.51
Sum of PFASs (n=30)*	0.1	ug/L	-	-	0.56
BTEX					
Benzene	1	%	100	-	-
Ethylbenzene	1	%	91	-	-
m&p-Xylenes	1	%	99	-	-
o-Xylene	1	%	84	-	-
Toluene	1	%	96	-	-
Xylenes - Total	1	%	89	-	-
4-Bromofluorobenzene (surr.)	1	%	98	-	-
BTEX					
Benzene	0.001	mg/L	-	< 0.001	-
Toluene	0.001	mg/L	-	< 0.001	-
Ethylbenzene	0.001	mg/L	-	< 0.001	-
m&p-Xylenes	0.002	mg/L	-	< 0.002	-
o-Xylene	0.001	mg/L	-	< 0.001	-
Xylenes - Total*	0.003	mg/L	-	< 0.003	-
4-Bromofluorobenzene (surr.)	1	%	-	94	-

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jun 11, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jun 11, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jun 11, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Volatile Organics	Sydney	Jun 11, 2021	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
Polycyclic Aromatic Hydrocarbons (Trace level)	Melbourne	Jun 15, 2021	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water (trace)			
pH (at 25 °C)	Sydney	Jun 11, 2021	1 Days
- Method: LTM-GEN-7090 pH in water by ISE			
Metals M8 filtered	Sydney	Jun 11, 2021	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
BTEX	Sydney	Jun 11, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Brisbane	Jun 11, 2021	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Brisbane	Jun 11, 2021	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAAs)	Brisbane	Jun 11, 2021	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Brisbane	Jun 11, 2021	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

Australia

Melbourne

6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney

Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane

1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth

46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle

4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

New Zealand

Auckland

35 O'Rourke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch

43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000
Project Name: ST GEORGE HOSPITAL DSI
Project ID: 60571

Order No.:
Report #: 802339
Phone: 02 8245 0300
Fax:

Received: Jun 10, 2021 4:30 PM
Due: Jun 18, 2021
Priority: 5 Day
Contact Name: Sahani Gunatunge

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						pH (at 25 °C)	Metals M8 filtered	BTEX	Volatile Organics	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271													X
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794													
Perth Laboratory - NATA Site # 23736													
Mayfield Laboratory - NATA Site # 25079													
External Laboratory													
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID								
1	BH01	Jun 10, 2021		Water	S21-Jn23562	X	X		X	X	X		X
2	BH06	Jun 10, 2021		Water	S21-Jn23563	X	X		X	X	X		X
3	BH09	Jun 10, 2021		Water	S21-Jn23564	X	X		X	X	X		X
4	BLANK	Jun 10, 2021		Water	S21-Jn23565						X		
5	TRIP SPIKE	Jun 10, 2021		Water	S21-Jn23566							X	
6	TRIP BLANK	Jun 10, 2021		Water	S21-Jn23567			X					
7	QA01	Jun 10, 2021		Water	S21-Jn23568	X	X		X	X	X		X
Test Counts						4	4	1	4	4	5	1	4

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NC	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

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

Results <10 times the LOR : No Limit

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

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

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Naphthalene	mg/L	< 0.01			0.01	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001			0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.001			0.001	Pass	
2-Propanone (Acetone)	mg/L	< 0.001			0.001	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.001			0.001	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Benzene	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	
Bromomethane	mg/L	< 0.001			0.001	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	
Chlorobenzene	mg/L	< 0.001			0.001	Pass	
Chloroethane	mg/L	< 0.001			0.001	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	
Chloromethane	mg/L	< 0.001			0.001	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Dibromochloromethane	mg/L	< 0.001			0.001	Pass	
Dibromomethane	mg/L	< 0.001			0.001	Pass	
Dichlorodifluoromethane	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Iodomethane	mg/L	< 0.001			0.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
Methylene Chloride	mg/L	< 0.001			0.001	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Styrene	mg/L	< 0.001			0.001	Pass	
Tetrachloroethene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
trans-1,2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
trans-1,3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Trichloroethene	mg/L	< 0.001			0.001	Pass	
Trichlorofluoromethane	mg/L	< 0.001			0.001	Pass	
Vinyl chloride	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons (Trace level)							
Acenaphthene	mg/L	< 0.00001			0.00001	Pass	
Acenaphthylene	mg/L	< 0.00001			0.00001	Pass	
Anthracene	mg/L	< 0.00001			0.00001	Pass	
Benz(a)anthracene	mg/L	< 0.00001			0.00001	Pass	
Benzo(a)pyrene	mg/L	< 0.00001			0.00001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.00001			0.00001	Pass	
Benzo(g,h,i)perylene	mg/L	< 0.00001			0.00001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.00001			0.00001	Pass	
Chrysene	mg/L	< 0.00001			0.00001	Pass	
Dibenz(a,h)anthracene	mg/L	< 0.00001			0.00001	Pass	
Fluoranthene	mg/L	< 0.00001			0.00001	Pass	
Fluorene	mg/L	< 0.00001			0.00001	Pass	
Indeno(1,2,3-cd)pyrene	mg/L	< 0.00001			0.00001	Pass	
Naphthalene	mg/L	< 0.00001			0.00001	Pass	
Phenanthrene	mg/L	< 0.00001			0.00001	Pass	
Pyrene	mg/L	< 0.00001			0.00001	Pass	
Method Blank							
Heavy Metals							
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Cadmium (filtered)	mg/L	< 0.0002			0.0002	Pass	
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Copper (filtered)	mg/L	< 0.001			0.001	Pass	
Lead (filtered)	mg/L	< 0.001			0.001	Pass	
Mercury (filtered)	mg/L	< 0.0001			0.0001	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01			0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01			0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotridecanoic acid (PFTTrDA)	ug/L	< 0.01			0.01	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05			0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05			0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05			0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/L	< 0.05			0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/L	< 0.05			0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05			0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSA's)							
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01			0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01			0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01			0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01			0.01	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/L	< 0.05			0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01			0.01	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	127			70-130	Pass	
TRH C10-C14	%	93			70-130	Pass	
Naphthalene	%	120			70-130	Pass	
TRH C6-C10	%	123			70-130	Pass	
TRH >C10-C16	%	93			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	115			70-130	Pass	
1.1.1-Trichloroethane	%	110			70-130	Pass	
1.2-Dichlorobenzene	%	110			70-130	Pass	
1.2-Dichloroethane	%	116			70-130	Pass	
Benzene	%	122			70-130	Pass	
Ethylbenzene	%	106			70-130	Pass	
m&p-Xylenes	%	125			70-130	Pass	
o-Xylene	%	124			70-130	Pass	
Toluene	%	97			70-130	Pass	
Trichloroethene	%	101			70-130	Pass	
Xylenes - Total*	%	124			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons (Trace level)							
Acenaphthene	%	89			70-130	Pass	
Acenaphthylene	%	93			70-130	Pass	
Anthracene	%	79			70-130	Pass	
Benz(a)anthracene	%	87			70-130	Pass	
Benzo(a)pyrene	%	106			70-130	Pass	
Benzo(b&j)fluoranthene	%	117			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(g,h,i)perylene	%	116			70-130	Pass	
Benzo(k)fluoranthene	%	87			70-130	Pass	
Chrysene	%	92			70-130	Pass	
Dibenz(a,h)anthracene	%	102			70-130	Pass	
Fluoranthene	%	96			70-130	Pass	
Fluorene	%	90			70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	103			70-130	Pass	
Naphthalene	%	84			70-130	Pass	
Phenanthrene	%	102			70-130	Pass	
Pyrene	%	100			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic (filtered)	%	97			80-120	Pass	
Cadmium (filtered)	%	95			80-120	Pass	
Chromium (filtered)	%	102			80-120	Pass	
Copper (filtered)	%	104			80-120	Pass	
Lead (filtered)	%	107			80-120	Pass	
Mercury (filtered)	%	113			80-120	Pass	
Nickel (filtered)	%	104			80-120	Pass	
Zinc (filtered)	%	99			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	92			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	102			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	122			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	131			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	125			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	126			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	119			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	124			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	138			50-150	Pass	
Perfluorotridecanoic acid (PFTriDA)	%	82			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	141			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	73			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	103			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	111			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	114			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	107			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	128			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	127			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSA's)							
Perfluorobutanesulfonic acid (PFBS)	%	115			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	114			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	109			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	99			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	136			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	135			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	111			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	124			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)			%	111			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)			%	149			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)			%	140			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)			%	148			50-150	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic (filtered)	S21-Jn23394	NCP	%	92			75-125	Pass	
Cadmium (filtered)	S21-Jn23394	NCP	%	91			75-125	Pass	
Chromium (filtered)	S21-Jn23394	NCP	%	96			75-125	Pass	
Copper (filtered)	S21-Jn23394	NCP	%	92			75-125	Pass	
Lead (filtered)	S21-Jn23394	NCP	%	96			75-125	Pass	
Mercury (filtered)	S21-Jn23394	NCP	%	111			75-125	Pass	
Nickel (filtered)	S21-Jn23394	NCP	%	91			75-125	Pass	
Zinc (filtered)	S21-Jn23394	NCP	%	91			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	S21-Jn23565	CP	%	85			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	S21-Jn23565	CP	%	116			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	S21-Jn23565	CP	%	126			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	S21-Jn23565	CP	%	129			50-150	Pass	
Perfluorooctanoic acid (PFOA)	S21-Jn23565	CP	%	127			50-150	Pass	
Perfluorononanoic acid (PFNA)	S21-Jn23565	CP	%	118			50-150	Pass	
Perfluorodecanoic acid (PFDA)	S21-Jn23565	CP	%	139			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	S21-Jn23565	CP	%	131			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	S21-Jn23565	CP	%	109			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	S21-Jn23565	CP	%	89			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S21-Jn23565	CP	%	125			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	S21-Jn23565	CP	%	80			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S21-Jn23565	CP	%	112			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S21-Jn23565	CP	%	109			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S21-Jn23565	CP	%	94			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S21-Jn23565	CP	%	120			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S21-Jn23565	CP	%	104			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S21-Jn23565	CP	%	110			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSA's)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	S21-Jn23565	CP	%	126			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	S21-Jn23565	CP	%	121			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S21-Jn23565	CP	%	116			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoropentanesulfonic acid (PFPeS)	S21-Jn23565	CP	%	112			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S21-Jn23565	CP	%	136			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S21-Jn23565	CP	%	122			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	S21-Jn23565	CP	%	102			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	S21-Jn23565	CP	%	129			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S21-Jn23565	CP	%	127			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S21-Jn23565	CP	%	88			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S21-Jn23565	CP	%	123			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S21-Jn23565	CP	%	144			50-150	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S21-Jn16011	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	S21-Jn23396	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	S21-Jn23396	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	S21-Jn23396	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Naphthalene	S21-Jn16011	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH C6-C10	S21-Jn16011	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	S21-Jn23396	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	S21-Jn23396	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	S21-Jn23396	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1-Dichloroethene	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1-Trichloroethane	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2-Trichloroethane	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dibromoethane	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichlorobenzene	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloroethane	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloropropane	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.3-Trichloropropane	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.4-Trimethylbenzene	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichlorobenzene	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichloropropane	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3.5-Trimethylbenzene	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.4-Dichlorobenzene	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
2-Butanone (MEK)	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
2-Propanone (Acetone)	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
4-Chlorotoluene	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
Allyl chloride	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Benzene	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromobenzene	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromochloromethane	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromodichloromethane	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromoform	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromomethane	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Carbon disulfide	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Carbon Tetrachloride	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Chlorobenzene	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Chloroethane	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Chloroform	S21-Jn16011	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass
Chloromethane	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
cis-1,2-Dichloroethene	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
cis-1,3-Dichloropropene	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Dibromochloromethane	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Dibromomethane	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Dichlorodifluoromethane	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Ethylbenzene	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Iodomethane	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Isopropyl benzene (Cumene)	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
m&p-Xylenes	S21-Jn16011	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Methylene Chloride	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
o-Xylene	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Styrene	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Tetrachloroethene	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Toluene	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
trans-1,2-Dichloroethene	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
trans-1,3-Dichloropropene	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Trichloroethene	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Trichlorofluoromethane	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Vinyl chloride	S21-Jn16011	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Xylenes - Total*	S21-Jn16011	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons (Trace level)				Result 1	Result 2	RPD		
Acenaphthene	M21-Jn28881	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass
Acenaphthylene	M21-Jn28881	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass
Anthracene	M21-Jn28881	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass
Benz(a)anthracene	M21-Jn28881	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass
Benzo(a)pyrene	M21-Jn28881	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass
Benzo(b&j)fluoranthene	M21-Jn28881	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass
Benzo(g,h,i)perylene	M21-Jn28881	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass
Benzo(k)fluoranthene	M21-Jn28881	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass
Chrysene	M21-Jn28881	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass
Dibenz(a,h)anthracene	M21-Jn28881	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass
Fluoranthene	M21-Jn28881	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass
Fluorene	M21-Jn28881	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	M21-Jn28881	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass
Naphthalene	M21-Jn28881	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass
Phenanthrene	M21-Jn28881	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass
Pyrene	M21-Jn28881	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass

Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic (filtered)	S21-Jn23390	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Cadmium (filtered)	S21-Jn23390	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass
Chromium (filtered)	S21-Jn23390	NCP	mg/L	0.048	0.048	1.0	30%	Pass
Copper (filtered)	S21-Jn23390	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Lead (filtered)	S21-Jn23390	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Mercury (filtered)	S21-Jn23390	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass
Nickel (filtered)	S21-Jn23390	NCP	mg/L	0.001	0.001	12	30%	Pass
Zinc (filtered)	S21-Jn23390	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	S21-Jn23562	CP	ug/L	< 0.15	< 0.15	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	S21-Jn23562	CP	ug/L	0.02	0.02	9.0	30%	Pass
Perfluorohexanoic acid (PFHxA)	S21-Jn23562	CP	ug/L	0.04	0.04	3.0	30%	Pass
Perfluoroheptanoic acid (PFHpA)	S21-Jn23562	CP	ug/L	0.01	0.01	4.0	30%	Pass
Perfluorooctanoic acid (PFOA)	S21-Jn23562	CP	ug/L	0.02	0.01	3.0	30%	Pass
Perfluorononanoic acid (PFNA)	S21-Jn23562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	S21-Jn23562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	S21-Jn23562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	S21-Jn23562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTTrDA)	S21-Jn23562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	S21-Jn23562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	S21-Jn23562	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S21-Jn23562	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S21-Jn23562	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S21-Jn23562	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S21-Jn23562	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S21-Jn23562	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S21-Jn23562	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	S21-Jn23562	CP	ug/L	0.04	0.04	1.0	30%	Pass
Perfluorononanesulfonic acid (PFNS)	S21-Jn23562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	S21-Jn23562	CP	ug/L	0.03	0.02	3.0	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	S21-Jn23562	CP	ug/L	0.03	0.03	7.0	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	S21-Jn23562	CP	ug/L	0.40	0.39	2.0	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	S21-Jn23562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	S21-Jn23562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	S21-Jn23562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S21-Jn23562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S21-Jn23562	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S21-Jn23562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S21-Jn23562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCA)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	S21-Jn23563	CP	ug/L	< 0.15	< 0.15	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	S21-Jn23563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	S21-Jn23563	CP	ug/L	0.01	0.01	5.0	30%	Pass
Perfluoroheptanoic acid (PFHpA)	S21-Jn23563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	S21-Jn23563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanoic acid (PFNA)	S21-Jn23563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	S21-Jn23563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	S21-Jn23563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	S21-Jn23563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	S21-Jn23563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	S21-Jn23563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	S21-Jn23563	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S21-Jn23563	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S21-Jn23563	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S21-Jn23563	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S21-Jn23563	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S21-Jn23563	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S21-Jn23563	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	S21-Jn23563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	S21-Jn23563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	S21-Jn23563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	S21-Jn23563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	S21-Jn23563	CP	ug/L	0.02	0.02	6.0	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	S21-Jn23563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	S21-Jn23563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	S21-Jn23563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S21-Jn23563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S21-Jn23563	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S21-Jn23563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S21-Jn23563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Comments

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N09	Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised by:

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Charl Du Preez	Senior Analyst-Inorganic (NSW)
John Nguyen	Senior Analyst-Metal (NSW)
Joseph Edouard	Senior Analyst-Organic (VIC)
Roopesh Rangarajan	Senior Analyst-Volatile (NSW)
Sarah McCallion	Senior Analyst-PFAS (QLD)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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Australia

Melbourne 6 Monterey Road Dandenong South VIC 3175 Phone : +61 3 8564 5000 NATA # 1261 Site # 1254 & 14271	Sydney Unit F3, Building F 16 Mars Road Lane Cove West NSW 2066 Phone : +61 2 9900 8400 NATA # 1261 Site # 18217	Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Phone : +61 7 3902 4600 NATA # 1261 Site # 20794	Perth 46-48 Banksia Road Welshpool WA 6106 Phone : +61 8 9251 9600 NATA # 1261 Site # 23736	Newcastle 4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2293 Phone : +61 2 4968 8448 NATA # 1261 Site # 25079	New Zealand	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone : +64 9 526 45 51 IANZ # 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Phone : 0800 856 450 IANZ # 1290
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Sample Receipt Advice

Company name: JBS & G Australia (NSW) P/L
Contact name: Sahani Gunatunge
Project name: ST GEORGE HOSPITAL DSI
Project ID: 60571
Turnaround time: 5 Day
Date/Time received: Jun 10, 2021 4:30 PM
Eurofins reference: 802339

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 2.1 degrees Celsius.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- ✓ Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✓ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

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

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Sahani Gunatunge - sgunatunge@jbsg.com.au.

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

New Zealand

Auckland
35 O'Rourke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

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

Project Name: ST GEORGE HOSPITAL DSI
Project ID: 60571

Order No.:
Report #: 802339
Phone: 02 8245 0300
Fax:

Received: Jun 10, 2021 4:30 PM
Due: Jun 18, 2021
Priority: 5 Day
Contact Name: Sahani Gunatunge

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						pH (at 25 °C)	Metals M8 filtered	BTEX	Volatile Organics	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271													X
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794													
Perth Laboratory - NATA Site # 23736													
Mayfield Laboratory - NATA Site # 25079													
External Laboratory													
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID								
1	BH01	Jun 10, 2021		Water	S21-Jn23562	X	X		X	X	X		X
2	BH06	Jun 10, 2021		Water	S21-Jn23563	X	X		X	X	X		X
3	BH09	Jun 10, 2021		Water	S21-Jn23564	X	X		X	X	X		X
4	BLANK	Jun 10, 2021		Water	S21-Jn23565						X		
5	TRIP SPIKE	Jun 10, 2021		Water	S21-Jn23566							X	
6	TRIP BLANK	Jun 10, 2021		Water	S21-Jn23567			X					
7	QA01	Jun 10, 2021		Water	S21-Jn23568	X	X		X	X	X		X
Test Counts						4	4	1	4	4	5	1	4

CERTIFICATE OF ANALYSIS 271478

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	S Gunatunge
Address	Level 1, 50 Margaret St, Sydney, NSW, 2000

Sample Details

Your Reference	<u>60571, St George Hospital DSI</u>
Number of Samples	1 Water
Date samples received	11/06/2021
Date completed instructions received	11/06/2021

Analysis Details

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

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

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

Report Details

Date results requested by	21/06/2021
Date of Issue	21/06/2021
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Dragana Tomas, Senior Chemist
 Hannah Nguyen, Senior Chemist
 Josh Williams, LC Supervisor
 Steven Luong, Organics Supervisor

Authorised By



Nancy Zhang, Laboratory Manager

VOCs in water		
Our Reference		271478-1
Your Reference	UNITS	QC01
Date Sampled		10/06/2021
Type of sample		Water
Date extracted	-	15/06/2021
Date analysed	-	15/06/2021
Dichlorodifluoromethane	µg/L	<10
Chloromethane	µg/L	<10
Vinyl Chloride	µg/L	<10
Bromomethane	µg/L	<10
Chloroethane	µg/L	<10
Trichlorofluoromethane	µg/L	<10
1,1-Dichloroethene	µg/L	<1
Trans-1,2-dichloroethene	µg/L	<1
1,1-dichloroethane	µg/L	<1
Cis-1,2-dichloroethene	µg/L	<1
Bromochloromethane	µg/L	<1
Chloroform	µg/L	<1
2,2-dichloropropane	µg/L	<1
1,2-dichloroethane	µg/L	<1
1,1,1-trichloroethane	µg/L	<1
1,1-dichloropropene	µg/L	<1
Cyclohexane	µg/L	<1
Carbon tetrachloride	µg/L	<1
Benzene	µg/L	<1
Dibromomethane	µg/L	<1
1,2-dichloropropane	µg/L	<1
Trichloroethene	µg/L	<1
Bromodichloromethane	µg/L	<1
trans-1,3-dichloropropene	µg/L	<1
cis-1,3-dichloropropene	µg/L	<1
1,1,2-trichloroethane	µg/L	<1
Toluene	µg/L	<1
1,3-dichloropropane	µg/L	<1
Dibromochloromethane	µg/L	<1
1,2-dibromoethane	µg/L	<1
Tetrachloroethene	µg/L	<1
1,1,1,2-tetrachloroethane	µg/L	<1
Chlorobenzene	µg/L	<1
Ethylbenzene	µg/L	<1

VOCs in water		
Our Reference		271478-1
Your Reference	UNITS	QC01
Date Sampled		10/06/2021
Type of sample		Water
Bromoform	µg/L	<1
m+p-xylene	µg/L	<2
Styrene	µg/L	<1
1,1,2,2-tetrachloroethane	µg/L	<1
o-xylene	µg/L	<1
1,2,3-trichloropropane	µg/L	<1
Isopropylbenzene	µg/L	<1
Bromobenzene	µg/L	<1
n-propyl benzene	µg/L	<1
2-chlorotoluene	µg/L	<1
4-chlorotoluene	µg/L	<1
1,3,5-trimethyl benzene	µg/L	<1
Tert-butyl benzene	µg/L	<1
1,2,4-trimethyl benzene	µg/L	<1
1,3-dichlorobenzene	µg/L	<1
Sec-butyl benzene	µg/L	<1
1,4-dichlorobenzene	µg/L	<1
4-isopropyl toluene	µg/L	<1
1,2-dichlorobenzene	µg/L	<1
n-butyl benzene	µg/L	<1
1,2-dibromo-3-chloropropane	µg/L	<1
1,2,4-trichlorobenzene	µg/L	<1
Hexachlorobutadiene	µg/L	<1
1,2,3-trichlorobenzene	µg/L	<1
Surrogate Dibromofluoromethane	%	100
Surrogate toluene-d8	%	97
Surrogate 4-BFB	%	96

vTRH in Water (C6-C9) NEPM		
Our Reference		271478-1
Your Reference	UNITS	QC01
Date Sampled		10/06/2021
Type of sample		Water
Date extracted	-	15/06/2021
Date analysed	-	15/06/2021
TRH C ₆ - C ₉	µg/L	<10
TRH C ₆ - C ₁₀	µg/L	<10
Surrogate Dibromofluoromethane	%	100
Surrogate toluene-d8	%	97
Surrogate 4-BFB	%	96

svTRH (C10-C40) in Water		
Our Reference		271478-1
Your Reference	UNITS	QC01
Date Sampled		10/06/2021
Type of sample		Water
Date extracted	-	16/06/2021
Date analysed	-	16/06/2021
TRH C ₁₀ - C ₁₄	µg/L	<50
TRH C ₁₅ - C ₂₈	µg/L	<100
TRH C ₂₉ - C ₃₆	µg/L	<100
TRH >C ₁₀ - C ₁₆	µg/L	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100
Surrogate o-Terphenyl	%	82

PAHs in Water - Low Level		
Our Reference		271478-1
Your Reference	UNITS	QC01
Date Sampled		10/06/2021
Type of sample		Water
Date extracted	-	16/06/2021
Date analysed	-	16/06/2021
Naphthalene	µg/L	<0.2
Acenaphthylene	µg/L	<0.1
Acenaphthene	µg/L	<0.1
Fluorene	µg/L	<0.1
Phenanthrene	µg/L	<0.1
Anthracene	µg/L	<0.1
Fluoranthene	µg/L	<0.1
Pyrene	µg/L	<0.1
Benzo(a)anthracene	µg/L	<0.1
Chrysene	µg/L	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2
Benzo(a)pyrene	µg/L	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5
Total +ve PAH's	µg/L	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	97

HM in water - dissolved		
Our Reference		271478-1
Your Reference	UNITS	QC01
Date Sampled		10/06/2021
Type of sample		Water
Date prepared	-	15/06/2021
Date analysed	-	17/06/2021
Arsenic-Dissolved	µg/L	<1
Cadmium-Dissolved	µg/L	<0.1
Chromium-Dissolved	µg/L	<1
Copper-Dissolved	µg/L	7
Lead-Dissolved	µg/L	<1
Mercury-Dissolved	µg/L	<0.05
Nickel-Dissolved	µg/L	26
Zinc-Dissolved	µg/L	76

PFAS in Waters Extended		
Our Reference		271478-1
Your Reference	UNITS	QC01
Date Sampled		10/06/2021
Type of sample		Water
Date prepared	-	15/06/2021
Date analysed	-	15/06/2021
Perfluorobutanesulfonic acid	µg/L	0.03
Perfluoropentanesulfonic acid	µg/L	0.03
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.28
Perfluoroheptanesulfonic acid	µg/L	<0.01
Perfluorooctanesulfonic acid PFOS	µg/L	<0.01
Perfluorodecanesulfonic acid	µg/L	<0.02
Perfluorobutanoic acid	µg/L	0.02
Perfluoropentanoic acid	µg/L	<0.02
Perfluorohexanoic acid	µg/L	0.03
Perfluoroheptanoic acid	µg/L	<0.01
Perfluorooctanoic acid PFOA	µg/L	0.01
Perfluorononanoic acid	µg/L	<0.01
Perfluorodecanoic acid	µg/L	<0.02
Perfluoroundecanoic acid	µg/L	<0.02
Perfluorododecanoic acid	µg/L	<0.05
Perfluorotridecanoic acid	µg/L	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5
4:2 FTS	µg/L	<0.01
6:2 FTS	µg/L	0.02
8:2 FTS	µg/L	<0.02
10:2 FTS	µg/L	<0.02
Perfluorooctane sulfonamide	µg/L	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05
N-Ethyl perfluorooctanesulfonamide	µg/L	<0.1
N-Me perfluorooctanesulfonamid oethanol	µg/L	<0.05
N-Et perfluorooctanesulfonamid oethanol	µg/L	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.02
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.02
Surrogate ¹³ C ₈ PFOS	%	105
Surrogate ¹³ C ₂ PFOA	%	106
Extracted ISTD ¹³ C ₃ PFBS	%	99
Extracted ISTD ¹⁸ O ₂ PFHxS	%	110
Extracted ISTD ¹³ C ₄ PFOS	%	86
Extracted ISTD ¹³ C ₄ PFBA	%	96

PFAS in Waters Extended		
Our Reference		271478-1
Your Reference	UNITS	QC01
Date Sampled		10/06/2021
Type of sample		Water
Extracted ISTD ¹³ C ₃ PFPeA	%	97
Extracted ISTD ¹³ C ₂ PFHxA	%	98
Extracted ISTD ¹³ C ₄ PFHpA	%	108
Extracted ISTD ¹³ C ₄ PFOA	%	100
Extracted ISTD ¹³ C ₅ PFNA	%	107
Extracted ISTD ¹³ C ₂ PFDA	%	105
Extracted ISTD ¹³ C ₂ PFUnDA	%	97
Extracted ISTD ¹³ C ₂ PFDoDA	%	86
Extracted ISTD ¹³ C ₂ PFTeDA	%	98
Extracted ISTD ¹³ C ₂ 4:2FTS	%	82
Extracted ISTD ¹³ C ₂ 6:2FTS	%	94
Extracted ISTD ¹³ C ₂ 8:2FTS	%	98
Extracted ISTD ¹³ C ₈ FOSA	%	110
Extracted ISTD d ₃ N MeFOSA	%	103
Extracted ISTD d ₅ N EtFOSA	%	94
Extracted ISTD d ₇ N MeFOSE	%	108
Extracted ISTD d ₉ N EtFOSE	%	106
Extracted ISTD d ₃ N MeFOSAA	%	87
Extracted ISTD d ₅ N EtFOSAA	%	83
Total Positive PFHxS & PFOS	µg/L	0.28
Total Positive PFOA & PFOS	µg/L	0.01
Total Positive PFAS	µg/L	0.42

Method ID	Methodology Summary
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-029	<p>Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3.</p> <p>Analysis is undertaken with LC-MS/MS.</p> <p>PFAS results include the sum of branched and linear isomers where applicable.</p> <p>Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.3 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components.</p> <p>Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.</p>

QUALITY CONTROL: VOCs in water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			15/06/2021	[NT]	[NT]	[NT]	[NT]	15/06/2021	[NT]
Date analysed	-			15/06/2021	[NT]	[NT]	[NT]	[NT]	15/06/2021	[NT]
Dichlorodifluoromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Vinyl Chloride	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromomethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichlorofluoromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-Dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trans-1,2-dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-dichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	79	[NT]
Cis-1,2-dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromochloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroform	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	94	[NT]
2,2-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	103	[NT]
1,1,1-trichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	94	[NT]
1,1-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Cyclohexane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Carbon tetrachloride	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibromomethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	131	[NT]
Bromodichloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	96	[NT]
trans-1,3-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
cis-1,3-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2-trichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibromochloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	88	[NT]
1,2-dibromoethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tetrachloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	88	[NT]
1,1,1,2-tetrachloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromoform	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Styrene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2,2-tetrachloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]

QUALITY CONTROL: VOCs in water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Isopropylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-propyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2-chlorotoluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-chlorotoluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3,5-trimethyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tert-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trimethyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Sec-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,4-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-isopropyl toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dibromo-3-chloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Hexachlorobutadiene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	101	[NT]	[NT]	[NT]	[NT]	98	[NT]
Surrogate toluene-d8	%		Org-023	98	[NT]	[NT]	[NT]	[NT]	96	[NT]
Surrogate 4-BFB	%		Org-023	97	[NT]	[NT]	[NT]	[NT]	97	[NT]

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			15/06/2021	[NT]	[NT]	[NT]	[NT]	15/06/2021	[NT]
Date analysed	-			15/06/2021	[NT]	[NT]	[NT]	[NT]	15/06/2021	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	99	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	99	[NT]
Surrogate Dibromofluoromethane	%		Org-023	101	[NT]	[NT]	[NT]	[NT]	98	[NT]
Surrogate toluene-d8	%		Org-023	98	[NT]	[NT]	[NT]	[NT]	96	[NT]
Surrogate 4-BFB	%		Org-023	97	[NT]	[NT]	[NT]	[NT]	97	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			16/06/2021	[NT]	[NT]	[NT]	[NT]	16/06/2021	[NT]
Date analysed	-			16/06/2021	[NT]	[NT]	[NT]	[NT]	16/06/2021	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	104	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	110	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	104	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	110	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate o-Terphenyl	%		Org-020	63	[NT]	[NT]	[NT]	[NT]	84	[NT]

QUALITY CONTROL: PAHs in Water - Low Level					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	271478-1
Date extracted	-			16/06/2021	[NT]	[NT]	[NT]	[NT]	16/06/2021	16/06/2021
Date analysed	-			16/06/2021	[NT]	[NT]	[NT]	[NT]	16/06/2021	16/06/2021
Naphthalene	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	91	111
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	77	93
Fluorene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	88	109
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	102	120
Anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	83	98
Pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	88	102
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	86	86
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	75	92
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	84	[NT]	[NT]	[NT]	[NT]	90	96

QUALITY CONTROL: HM in water - dissolved						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date prepared	-			17/06/2021	1	15/06/2021	15/06/2021		17/06/2021	[NT]
Date analysed	-			17/06/2021	1	17/06/2021	17/06/2021		17/06/2021	[NT]
Arsenic-Dissolved	µg/L	1	Metals-022	<1	1	<1	[NT]		115	[NT]
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	1	<0.1	[NT]		114	[NT]
Chromium-Dissolved	µg/L	1	Metals-022	<1	1	<1	[NT]		113	[NT]
Copper-Dissolved	µg/L	1	Metals-022	<1	1	7	[NT]		110	[NT]
Lead-Dissolved	µg/L	1	Metals-022	<1	1	<1	[NT]		115	[NT]
Mercury-Dissolved	µg/L	0.05	Metals-021	<0.05	1	<0.05	[NT]		108	[NT]
Nickel-Dissolved	µg/L	1	Metals-022	<1	1	26	[NT]		112	[NT]
Zinc-Dissolved	µg/L	1	Metals-022	<1	1	76	[NT]		105	[NT]

QUALITY CONTROL: PFAS in Waters Extended					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date prepared	-			15/06/2021	1	15/06/2021	15/06/2021		15/06/2021	[NT]
Date analysed	-			15/06/2021	1	15/06/2021	15/06/2021		15/06/2021	[NT]
Perfluorobutanesulfonic acid	µg/L	0.01	Org-029	<0.01	1	0.03	0.04	29	107	[NT]
Perfluoropentanesulfonic acid	µg/L	0.01	Org-029	<0.01	1	0.03	0.03	0	98	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.01	Org-029	<0.01	1	0.28	0.27	4	100	[NT]
Perfluoroheptanesulfonic acid	µg/L	0.01	Org-029	<0.01	1	<0.01	<0.01	0	101	[NT]
Perfluorooctanesulfonic acid PFOS	µg/L	0.01	Org-029	<0.01	1	<0.01	<0.01	0	102	[NT]
Perfluorodecanesulfonic acid	µg/L	0.02	Org-029	<0.02	1	<0.02	<0.02	0	102	[NT]
Perfluorobutanoic acid	µg/L	0.02	Org-029	<0.02	1	0.02	0.02	0	103	[NT]
Perfluoropentanoic acid	µg/L	0.02	Org-029	<0.02	1	<0.02	<0.02	0	103	[NT]
Perfluorohexanoic acid	µg/L	0.01	Org-029	<0.01	1	0.03	0.03	0	101	[NT]
Perfluoroheptanoic acid	µg/L	0.01	Org-029	<0.01	1	<0.01	<0.01	0	106	[NT]
Perfluorooctanoic acid PFOA	µg/L	0.01	Org-029	<0.01	1	0.01	<0.01	0	109	[NT]
Perfluorononanoic acid	µg/L	0.01	Org-029	<0.01	1	<0.01	<0.01	0	105	[NT]
Perfluorodecanoic acid	µg/L	0.02	Org-029	<0.02	1	<0.02	<0.02	0	99	[NT]
Perfluoroundecanoic acid	µg/L	0.02	Org-029	<0.02	1	<0.02	<0.02	0	96	[NT]
Perfluorododecanoic acid	µg/L	0.05	Org-029	<0.05	1	<0.05	<0.05	0	105	[NT]
Perfluorotridecanoic acid	µg/L	0.1	Org-029	<0.1	1	<0.1	<0.1	0	106	[NT]
Perfluorotetradecanoic acid	µg/L	0.5	Org-029	<0.5	1	<0.5	<0.5	0	103	[NT]
4:2 FTS	µg/L	0.01	Org-029	<0.01	1	<0.01	<0.01	0	110	[NT]
6:2 FTS	µg/L	0.01	Org-029	<0.01	1	0.02	0.01	67	105	[NT]
8:2 FTS	µg/L	0.02	Org-029	<0.02	1	<0.02	<0.02	0	102	[NT]
10:2 FTS	µg/L	0.02	Org-029	<0.02	1	<0.02	<0.02	0	79	[NT]
Perfluorooctane sulfonamide	µg/L	0.1	Org-029	<0.1	1	<0.1	<0.1	0	99	[NT]
N-Methyl perfluorooctane sulfonamide	µg/L	0.05	Org-029	<0.05	1	<0.05	<0.05	0	105	[NT]
N-Ethyl perfluorooctanesulfonamide	µg/L	0.1	Org-029	<0.1	1	<0.1	<0.1	0	101	[NT]
N-Me perfluorooctanesulfonamid oethanol	µg/L	0.05	Org-029	<0.05	1	<0.05	<0.05	0	103	[NT]
N-Et perfluorooctanesulfonamid oethanol	µg/L	0.5	Org-029	<0.5	1	<0.5	<0.5	0	103	[NT]
MePerfluorooctanesulf- amid oacetic acid	µg/L	0.02	Org-029	<0.02	1	<0.02	<0.02	0	105	[NT]
EtPerfluorooctanesulf- amid oacetic acid	µg/L	0.02	Org-029	<0.02	1	<0.02	<0.02	0	116	[NT]
Surrogate ¹³ C ₈ PFOS	%		Org-029	99	1	105	99	6	97	[NT]
Surrogate ¹³ C ₂ PFOA	%		Org-029	98	1	106	112	6	100	[NT]

QUALITY CONTROL: PFAS in Waters Extended					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Extracted ISTD ¹³ C ₃ PFBS	%		Org-029	101	1	99	101	2	97	[NT]
Extracted ISTD ¹⁸ O ₂ PFHxS	%		Org-029	108	1	110	111	1	106	[NT]
Extracted ISTD ¹³ C ₄ PFOS	%		Org-029	100	1	86	88	2	97	[NT]
Extracted ISTD ¹³ C ₄ PFBA	%		Org-029	106	1	96	96	0	104	[NT]
Extracted ISTD ¹³ C ₃ PFPeA	%		Org-029	103	1	97	100	3	104	[NT]
Extracted ISTD ¹³ C ₂ PFHxA	%		Org-029	103	1	98	97	1	101	[NT]
Extracted ISTD ¹³ C ₄ PFHpA	%		Org-029	109	1	108	110	2	103	[NT]
Extracted ISTD ¹³ C ₄ PFOA	%		Org-029	108	1	100	98	2	102	[NT]
Extracted ISTD ¹³ C ₅ PFNA	%		Org-029	108	1	107	104	3	104	[NT]
Extracted ISTD ¹³ C ₂ PFDA	%		Org-029	98	1	105	106	1	102	[NT]
Extracted ISTD ¹³ C ₂ PFUnDA	%		Org-029	103	1	97	104	7	97	[NT]
Extracted ISTD ¹³ C ₂ PFDoDA	%		Org-029	91	1	86	88	2	88	[NT]
Extracted ISTD ¹³ C ₂ PFTeDA	%		Org-029	102	1	98	96	2	101	[NT]
Extracted ISTD ¹³ C ₂ 4:2FTS	%		Org-029	111	1	82	83	1	107	[NT]
Extracted ISTD ¹³ C ₂ 6:2FTS	%		Org-029	116	1	94	97	3	113	[NT]
Extracted ISTD ¹³ C ₂ 8:2FTS	%		Org-029	96	1	98	104	6	103	[NT]
Extracted ISTD ¹³ C ₈ FOSA	%		Org-029	112	1	110	109	1	106	[NT]
Extracted ISTD d ₃ N MeFOSA	%		Org-029	105	1	103	97	6	101	[NT]
Extracted ISTD d ₅ N EtFOSA	%		Org-029	100	1	94	93	1	100	[NT]
Extracted ISTD d ₇ N MeFOSE	%		Org-029	107	1	108	113	5	106	[NT]

QUALITY CONTROL: PFAS in Waters Extended					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Extracted ISTD d ₉ N EtFOSE	%		Org-029	105	1	106	106	0	99	[NT]
Extracted ISTD d ₃ N MeFOSAA	%		Org-029	101	1	87	85	2	100	[NT]
Extracted ISTD d ₅ N EtFOSAA	%		Org-029	88	1	83	78	6	86	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Envirolab

[illegible]

Appendix M QA/QC Summary

Soil RPDs
Project Number: 60571
Project Name: St George Hospital Stage 3 DSI



Field Duplicates (soil)
Filter: ALL

SDG	800730	800730		800730	800730		800730	ENVIROLAB 2021-06-04T00:00:00		800730	ENVIROLAB 2021-06-04T00:00:00	
Field ID	BH06_0.2-0.3	QA01	RPD	BH01_0.2-0.3 (PFAS)	PF QA01	RPD	BH06_0.2-0.3	QC01	RPD	BH01_0.2-0.3 (PFAS)	PF QC01	RPD
Sampled Date/Time	1/06/2021	1/06/2021		31/05/2021	31/05/2021		1/06/2021	1/06/2021		31/05/2021	31/05/2021	

Chem_Group	ChemName	Units	EQL										
Metals & Metalloids	Arsenic	mg/kg	2 : 4 (Interlab)	4.3	3	36				4.3	<4	7	
	Cadmium	mg/kg	0.4	<0.4	<0.4	0				<0.4	<0.4	0	
	Chromium (VI)	mg/kg	5 : 1 (Interlab)	25	15	50				25	16	44	
	Copper	mg/kg	5 : 1 (Interlab)	64	16	120				64	49	27	
	Lead	mg/kg	5 : 1 (Interlab)	33	25	28				33	20	49	
	Mercury	mg/kg	0.1	<0.1	<0.1	0				<0.1	<0.1	0	
	Nickel	mg/kg	5 : 1 (Interlab)	12	9.3	25				12	11	9	
	Zinc	mg/kg	5 : 1 (Interlab)	74	55	29				74	52	35	
TPHs (NEPC 1999)	C6-C9 Fractions	mg/kg	20 : 25 (Interlab)	<20	<20	0				<20	<25	0	
	C10-C14 Fractions	mg/kg	20 : 50 (Interlab)	<20	<20	0				<20	<50	0	
	C15-C28 Fractions	mg/kg	50 : 100 (Interlab)	<50	<50	0				<50	<100	0	
	C29-C36 Fractions	mg/kg	50 : 100 (Interlab)	75	<50	40				75	<100	0	
	C10-C36 Fractions	mg/kg	50	75	<50	40				75			
TRHs (NEPC 1999)	C6-C10	mg/kg	20 : 25 (Interlab)	<20	<20	0				<20	<25	0	
	C10-C16	mg/kg	50	<50	<50	0				<50	<50	0	
	C16-C34	mg/kg	100	100	<100	0				100	<100	0	
	C34-C40	mg/kg	100	<100	<100	0				<100	<100	0	
	C10-C40 (Sum)	mg/kg	100 : 50 (Interlab)	100	<100	0				100	<50	67	
	F1 (C6-C10 range)	mg/kg	20 : 25 (Interlab)	<20	<20	0				<20	<25	0	
	F2 (C10-C16 range)	mg/kg	50	<50	<50	0				<50	<50	0	
BTEXN (2013)	Benzene	mg/kg	0.1 : 0.2 (Interlab)	<0.1	<0.1	0				<0.1	<0.2	0	
	Toluene	mg/kg	0.1 : 0.5 (Interlab)	<0.1	<0.1	0				<0.1	<0.5	0	
	Ethylbenzene	mg/kg	0.1 : 1 (Interlab)	<0.1	<0.1	0				<0.1	<1	0	
	Xylene (o)	mg/kg	0.1 : 1 (Interlab)	<0.1	<0.1	0				<0.1	<1	0	
	Xylene (m & p)	mg/kg	0.2 : 2 (Interlab)	<0.2	<0.2	0				<0.2	<2	0	
	Xylene Total	mg/kg	0.3 : 3 (Interlab)	<0.3	<0.3	0				<0.3	<3	0	
	Naphthalene	mg/kg	0.5	<0.5	<0.5	0				<0.5			
PAH	Acenaphthene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0				<0.5	<0.1	0	
	Acenaphthylene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0				<0.5	<0.1	0	
	Anthracene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0				<0.5	<0.1	0	
	Benz(a)anthracene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0				<0.5	0.2	0	
	Benzo(a)pyrene	mg/kg	0.5 : 0.05 (Interlab)	<0.5	<0.5	0				<0.5	0.1	0	
	Benzo(a)pyrene	mg/kg	0.5	1.2	1.2	0				1.2	<0.5	82	
	Benzo(a)pyrene	mg/kg	0.5	0.6	0.6	0				0.6	<0.5	18	
	Benzo(a)pyrene	mg/kg	0.5	<0.5	<0.5	0				<0.5	<0.5	0	
	Benzo(b+j)fluoranthene	mg/kg	0.5	<0.5	<0.5	0				<0.5			
	Benzo(g,h,i)fluoranthene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0				<0.5	<0.1	0	
	Benzo(k)fluoranthene	mg/kg	0.5	<0.5	<0.5	0				<0.5			
	Chrysene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0				<0.5	0.2	0	
	Dibenz(a,h)anthracene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0				<0.5	<0.1	0	
	Fluoranthene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0				<0.5	0.2	0	
	Fluorene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0				<0.5	<0.1	0	
	Indeno(1,2,3-cd)pyrene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0				<0.5	<0.1	0	
	Naphthalene	mg/kg	0.5	<0.5	<0.5	0				<0.5			
	Phenanthrene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0				<0.5	0.1	0	
	Pyrene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0				<0.5	0.3	0	
	PAHs (Sum of 16)	mg/kg	0.5 : 0.05 (Interlab)	<0.5	<0.5	0				<0.5	1.3	89	

Soil RPDs
Project Number: 60571
Project Name: St George Hospital Stage 3 DSI



Field Duplicates (soil)
Filter: ALL

SDG	800730	800730		800730	800730		800730	ENVIROLAB 2021-06-04T00:00:00		800730	ENVIROLAB 2021-06-04T00:00:00	
Field ID	BH06_0.2-0.3	QA01	RPD	BH01_0.2-0.3 (PFAS)	PF QA01	RPD	BH06_0.2-0.3	QC01	RPD	BH01_0.2-0.3 (PFAS)	PF QC01	RPD
Sampled Date/Time	1/06/2021	1/06/2021		31/05/2021	31/05/2021		1/06/2021	1/06/2021		31/05/2021	31/05/2021	

Organochlorine Pesticides	4,4-DDE	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.1	0			
	a-BHC	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.1	0			
	b-BHC	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.1	0			
	d-BHC	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.1	0			
	g-BHC (Lindane)	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.1	0			
	Aldrin	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.1	0			
	Dieldrin	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.1	0			
	Aldrin + Dieldrin	mg/kg	0.05	<0.05	<0.05	0				<0.05					
	Chlordane	mg/kg	0.1	<0.1	<0.1	0				<0.1					
	DDT	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.1	0			
	DDD	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.1	0			
	DDT+DDE+DDD	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.1	0			
	Endosulfan	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.1	0			
	Endosulfan	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.1	0			
	Endosulfan	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.1	0			
	Endrin	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.1	0			
	Endrin aldehyde	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.1	0			
	Endrin ketone	mg/kg	0.05	<0.05	<0.05	0				<0.05					
	Heptachlor	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.1	0			
	Heptachlor	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.1	0			
	Methoxychlor	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.1	0			
	Toxaphene	mg/kg	0.1	<0.1	<0.1	0				<0.1					
Polychlorinated Biphenyls	Arochlor 1248	mg/kg	0.1	<0.1	<0.1	0				<0.1	<0.1	0			
	Arochlor 1254	mg/kg	0.1	<0.1	<0.1	0				<0.1	<0.1	0			
	Arochlor 1260	mg/kg	0.1	<0.1	<0.1	0				<0.1	<0.1	0			
	Arochlor 1268	mg/kg	0.1	<0.1	<0.1	0				<0.1	<0.1	0			
	Arochlor 1270	mg/kg	0.1	<0.1	<0.1	0				<0.1	<0.1	0			
	Arochlor 1275	mg/kg	0.1	<0.1	<0.1	0				<0.1	<0.1	0			
	Arochlor 1280	mg/kg	0.1	<0.1	<0.1	0				<0.1	<0.1	0			
	PCBs (Sum of 20 congeners)	mg/kg	0.1	<0.1	<0.1	0				<0.1	<0.1	0			
Perfluorinated Compounds	Perfluorobutane	mg/kg	0.005 : 0.0002 (Interlab)				<0.005	<0.005	0				<0.005	<0.0002	0
	Perfluoropentane	mg/kg	0.005 : 0.0002 (Interlab)				<0.005	<0.005	0				<0.005	<0.0002	0
	Perfluorohexane	mg/kg	0.005 : 0.0001 (Interlab)				<0.005	<0.005	0				<0.005	<0.0001	0
	Perfluorohexane	mg/kg	0.005 : 0.0001 (Interlab)				<0.005	<0.005	0				<0.005	<0.0001	0
	Perfluorooctane	mg/kg	0.005 : 0.0001 (Interlab)				<0.005	<0.005	0				<0.005	0.0001	0
	Perfluorononane	mg/kg	0.005 : 0.0001 (Interlab)				<0.005	<0.005	0				<0.005	<0.0001	0
	Perfluorodecane	mg/kg	0.005 : 0.0005 (Interlab)				<0.005	<0.005	0				<0.005	<0.0005	0
	Perfluoroundecane	mg/kg	0.005 : 0.0005 (Interlab)				<0.005	<0.005	0				<0.005	<0.0005	0
	Perfluorododecane	mg/kg	0.005 : 0.0005 (Interlab)				<0.005	<0.005	0				<0.005	<0.0005	0
	Perfluorotridecane	mg/kg	0.005 : 0.0005 (Interlab)				<0.005	<0.005	0				<0.005	<0.0005	0
	Perfluorotetradecane	mg/kg	0.005				<0.005	<0.005	0				<0.005	<0.005	0
	Perfluorooctanoic acid	mg/kg	0.005 : 0.001 (Interlab)				<0.005	<0.005	0				<0.005	<0.001	0
	N-Methyl perfluorooctanoic acid	mg/kg	0.005 : 0.001 (Interlab)				<0.005	<0.005	0				<0.005	<0.001	0
	N-Ethyl perfluorooctanoic acid	mg/kg	0.005 : 0.001 (Interlab)				<0.005	<0.005	0				<0.005	<0.001	0

Soil RPDs
Project Number: 60571
Project Name: St George Hospital Stage 3 DSI



Field Duplicates (soil)
Filter: ALL

SDG	800730	800730		800730	800730		800730	ENVIROLAB 2021-06-04T00:00:00		800730	ENVIROLAB 2021-06-04T00:00:00	
Field ID	BH06_0.2-0.3	QA01	RPD	BH01_0.2-0.3 (PFAS)	PF QA01	RPD	BH06_0.2-0.3	QC01	RPD	BH01_0.2-0.3 (PFAS)	PF QC01	RPD
Sampled Date/Time	1/06/2021	1/06/2021		31/05/2021	31/05/2021		1/06/2021	1/06/2021		31/05/2021	31/05/2021	

	N-Methylpe	mg/kg	0.005 : 0.001 (Interlab)				<0.005	<0.005	0			<0.005	<0.001	0
	N-ethylperfl	mg/kg	0.005				<0.005	<0.005	0			<0.005	<0.005	0
	N-methylpe	mg/kg	0.01 : 0.0002 (Interlab)				<0.01	<0.01	0			<0.01	<0.0002	0
	N-ethyl-perf	mg/kg	0.01 : 0.0002 (Interlab)				<0.01	<0.01	0			<0.01	<0.0002	0
	Perfluoropro	mg/kg	0.005				<0.005	<0.005	0			<0.005		
	Perfluorobu	mg/kg	0.005 : 0.0001 (Interlab)				<0.005	<0.005	0			<0.005	<0.0001	0
	Perfluorope	mg/kg	0.005 : 0.0001 (Interlab)				<0.005	<0.005	0			<0.005	<0.0001	0
	Perfluorohe	mg/kg	0.005 : 0.0001 (Interlab)				<0.005	<0.005	0			<0.005	0.0001	0
	Perfluorohe	mg/kg	0.005 : 0.0001 (Interlab)				<0.005	<0.005	0			<0.005	<0.0001	0
	Perfluorooc	mg/kg	0.005 : 0.0001 (Interlab)				<0.005	<0.005	0			<0.005	0.0006	0
	Perfluorono	mg/kg	0.005				<0.005	<0.005	0			<0.005		
	Perfluorode	mg/kg	0.005 : 0.0002 (Interlab)				<0.005	<0.005	0			<0.005	<0.0002	0
	1H.1H.2H.2H	mg/kg	0.005 : 0.0001 (Interlab)				<0.005	<0.005	0			<0.005	<0.0001	0
	1H.1H.2H.2H	mg/kg	0.01 : 0.0001 (Interlab)				<0.01	<0.01	0			<0.01	<0.0001	0
	1H.1H.2H.2H	mg/kg	0.005 : 0.0002 (Interlab)				<0.005	<0.005	0			<0.005	<0.0002	0
	1H.1H.2H.2H	mg/kg	0.005 : 0.0002 (Interlab)				<0.005	<0.005	0			<0.005	<0.0002	0
	Sum of PFHx	mg/kg	0.005 : 0.0001 (Interlab)				<0.005	<0.005	0			<0.005	0.0007	0
	Sum of enHx	mg/kg	0.005				<0.005	<0.005	0			<0.005		
	Sum of US E	mg/kg	0.005 : 0.0001 (Interlab)				<0.005	<0.005	0			<0.005	0.0008	0
	Sum of PFAS	mg/kg	0.01				<0.01	<0.01	0			<0.01		
	Sum of PFAS	mg/kg	0.05 : 0.0001 (Interlab)				<0.05	<0.05	0			<0.05	0.0009	0
Chlorinated	Hexachlorot	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.1	0		
Benzenes														
EPA VIC - IW	Organochlor	mg/kg	0.1	<0.1	<0.1	0				<0.1				
	Other Organ	mg/kg	0.1	<0.1	<0.1	0				<0.1				
RG621														
Asbestos - E	Approximat	g												
	Mass ACM	g												
	Mass Asbest	g												
	Asbestos frd	% (w/w)												
	Mass FA	g												
	Mass Asbest	g												
	Mass AF	g												
	Mass asbest	g												
	Asbestos frd	% (w/w)												
	Mass Asbest	g												
	ACM - Comr	Comment												
	FA- Comme	Comment												
	AF - Comme	Comment												
	Organic Fibr	Comment												
	Respirable F	Comment												
	Synthetic Fil	Comment												
	Asbestos Re	Comment												
urofins														
Other	Moisture Cd	%	1	11	7.2	42	6.8	7.1	4	11		6.8		

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 30 (1-10 x EQL); 30 (10-30 x EQL); 30 (> 30 x EQL))
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

Groundwater RPDs

Project Number: 60571

Project Name: St George Hospital Stage 3 DSI

Field Duplicates (water)

Filter: ALL



SDG	802339	802339		802339	ENVIROLAB 2021-06-11T00:00:00
Field ID	BH01	QA01	RPD	BH01	QC01
Sampled Date/Time	10/06/2021	10/06/2021		10/06/2021	10/06/2021
					RPD

Chem_Group	ChemName	Units	EQL						
Metals & M	Arsenic (Filt	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Cadmium (F	mg/l	0.0002 : 0.0001 (Interlab)	<0.0002	<0.0002	0	<0.0002	<0.0001	0
	Chromium (mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Copper (Filt	mg/l	0.001	0.006	0.007	15	0.006	0.007	15
	Lead (Filtere	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Mercury (Fil	mg/l	0.0001 : 5e-005 (Interlab)	<0.0001	<0.0001	0	<0.0001	<0.00005	0
	Nickel (Filt	mg/l	0.001	0.024	0.024	0	0.024	0.026	8
	Zinc (Filtere	mg/l	0.005 : 0.001 (Interlab)	0.065	0.077	17	0.065	0.076	16
etalloids									
TPHs (NEPC	C6-C9 Fracti	mg/l	0.02 : 0.01 (Interlab)	<0.02	<0.02	0	<0.02	<0.01	0
	C10-C14 Fra	mg/l	0.05	<0.05	<0.05	0	<0.05	<0.05	0
	C15-C28 Fra	mg/l	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	C29-C36 Fra	mg/l	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	C10-C36 Fra	mg/l	0.1	<0.1	<0.1	0	<0.1		
1999)									
TRHs (NEPC	C6-C10	mg/l	0.02 : 0.01 (Interlab)	<0.02	<0.02	0	<0.02	<0.01	0
	C10-C16	mg/l	0.05	<0.05	<0.05	0	<0.05	<0.05	0
	C16-C34	mg/l	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	C34-C40	mg/l	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	C10-C40 (Su	mg/l	0.1	<0.1	<0.1	0	<0.1		
	F1 (C6-C10 r	mg/l	0.02	<0.02	<0.02	0	<0.02		
	F2 (C10-C16	mg/l	0.05	<0.05	<0.05	0	<0.05		
2013)									
BTEXN	Benzene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Toluene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Ethylbenzen	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Xylene (o)	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Xylene (m &	mg/l	0.002	<0.002	<0.002	0	<0.002	<0.002	0
	Xylene Total	mg/l	0.003	<0.003	<0.003	0	<0.003		
	Naphthalen	mg/l	0.01	<0.01	<0.01	0	<0.01		
PAH	Acenaphthe	mg/l	1e-005 : 0.0001 (Interlab)	<0.00001	<0.00001	0	<0.00001	<0.0001	0
	Acenaphthy	mg/l	1e-005 : 0.0001 (Interlab)	<0.00001	<0.00001	0	<0.00001	<0.0001	0
	Anthracene	mg/l	1e-005 : 0.0001 (Interlab)	<0.00001	<0.00001	0	<0.00001	<0.0001	0
	Benz(a)anth	mg/l	1e-005 : 0.0001 (Interlab)	<0.00001	<0.00001	0	<0.00001	<0.0001	0
	Benzo(a) py	mg/l	1e-005 : 0.0001 (Interlab)	<0.00001	<0.00001	0	<0.00001	<0.0001	0
	Benzo(b+j)fl	mg/l	1e-005	<0.00001	<0.00001	0	<0.00001		
	Benzo(g,h,i)	mg/l	1e-005 : 0.0001 (Interlab)	<0.00001	<0.00001	0	<0.00001	<0.0001	0
	Benzo(k)flu	mg/l	1e-005	<0.00001	<0.00001	0	<0.00001		
	Chrysene	mg/l	1e-005 : 0.0001 (Interlab)	<0.00001	<0.00001	0	<0.00001	<0.0001	0
	Dibenz(a,h)	mg/l	1e-005 : 0.0001 (Interlab)	<0.00001	<0.00001	0	<0.00001	<0.0001	0
	Fluoranthene	mg/l	1e-005 : 0.0001 (Interlab)	<0.00001	<0.00001	0	<0.00001	<0.0001	0
	Fluorene	mg/l	1e-005 : 0.0001 (Interlab)	<0.00001	<0.00001	0	<0.00001	<0.0001	0
	Indeno(1,2,3	mg/l	1e-005 : 0.0001 (Interlab)	<0.00001	<0.00001	0	<0.00001	<0.0001	0
	Naphthalen	mg/l	1e-005	<0.00001	<0.00001	0	<0.00001		
	Phenanthrene	mg/l	1e-005 : 0.0001 (Interlab)	<0.00001	<0.00001	0	<0.00001	<0.0001	0
	Pyrene	mg/l	1e-005 : 0.0001 (Interlab)	<0.00001	<0.00001	0	<0.00001	<0.0001	0
	PAHs (Sum	mg/l	1e-005 : 0.0001 (Interlab)	<0.00001	<0.00001	0	<0.00001	<0.0001	0
Chlorinated	1,1,1,2-tetra	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,1,1-trichlo	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,1,2,2-tetra	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,1,2-trichlo	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,1-dichloro	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,2,3-trichlo	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,2-dichloro	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,2-dichloro	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,3-dichloro	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Bromochlor	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Carbon tetra	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Chloroethar	mg/l	0.001 : 0.01 (Interlab)	<0.001	<0.001	0	<0.001	<0.01	0
	Chlorometh	mg/l	0.001 : 0.01 (Interlab)	<0.001	<0.001	0	<0.001	<0.01	0
	Dichlorodifl	mg/l	0.001 : 0.01 (Interlab)	<0.001	<0.001	0	<0.001	<0.01	0
	Dichloromet	mg/l	0.001	<0.001	<0.001	0	<0.001		
	Trichloroflu	mg/l	0.001 : 0.01 (Interlab)	<0.001	<0.001	0	<0.001	<0.01	0
Alkanes									
Chlorinated	1,1-dichloro	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	3-chloropro	mg/l	0.001	<0.001	<0.001	0	<0.001		
	4-chlorotolu	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	cis-1,2-dichl	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	cis-1,3-dichl	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Tetrachloro	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	trans-1,2-di	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	trans-1,3-di	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Trichloroeth	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Vinyl Chlorid	mg/l	0.001 : 0.01 (Interlab)	<0.001	<0.001	0	<0.001	<0.01	0
Alkenes									
Solvents	Acetone	mg/l	0.001	<0.001	<0.001	0	<0.001		

Groundwater RPDs

Project Number: 60571

Project Name: St George Hospital Stage 3 DSI

Field Duplicates (water)

Filter: ALL



SDG	802339	802339		802339	ENVIROLAB 2021-06-11T00:00:00
Field ID	BH01	QA01	RPD	BH01	QC01
Sampled Date/Time	10/06/2021	10/06/2021		10/06/2021	10/06/2021
					RPD

PFAS	Perfluorobu	µg/L	0.05 : 0.02 (Interlab)	<0.15	<0.15	0	<0.15	0.02	0
	Perfluorope	µg/L	0.01 : 0.02 (Interlab)	0.02	0.02	0	0.02	<0.02	0
	Perfluorohe	µg/L	0.01	0.04	0.05	22	0.04	0.03	29
	Perfluorohe	µg/L	0.01	0.01	<0.01	0	0.01	<0.01	0
	Perfluorooc	µg/L	0.01	0.02	0.01	67	0.02	0.01	67
	Perfluorono	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	Perfluorode	µg/L	0.01 : 0.02 (Interlab)	<0.01	<0.01	0	<0.01	<0.02	0
	Perfluoroun	µg/L	0.01 : 0.02 (Interlab)	<0.01	<0.01	0	<0.01	<0.02	0
	Perfluorodo	µg/L	0.01 : 0.05 (Interlab)	<0.01	<0.01	0	<0.01	<0.05	0
	Perfluorotri	µg/L	0.01 : 0.1 (Interlab)	<0.01	<0.01	0	<0.01	<0.1	0
	Perfluorotet	µg/L	0.01 : 0.5 (Interlab)	<0.01	<0.01	0	<0.01	<0.5	0
	Perfluorooc	µg/L	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.1	0
	N-Methyl pe	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0
	N-Ethyl per	µg/L	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.1	0
	N-Methylpe	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0
	N-ethylper	µg/L	0.05 : 0.5 (Interlab)	<0.05	<0.05	0	<0.05	<0.5	0
	N-methylpe	µg/L	0.05 : 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0
	N-ethyl-per	µg/L	0.05 : 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0
	Perfluoropr	µg/L	0.01	0.03	0.02	40	0.03		
	Perfluorobu	µg/L	0.01	0.04	0.04	0	0.04	0.03	29
	Perfluorope	µg/L	0.01	0.03	0.03	0	0.03	0.03	0
	Perfluorohe	µg/L	0.01	0.4	0.39	3	0.4	0.28	35
	Perfluorohe	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	Perfluorooc	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	Perfluorono	µg/L	0.01	<0.01	<0.01	0	<0.01		
	Perfluorode	µg/L	0.01 : 0.02 (Interlab)	<0.01	<0.01	0	<0.01	<0.02	0
	1H.1H.2H.2H	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	1H.1H.2H.2H	µg/L	0.05 : 0.01 (Interlab)	<0.05	<0.05	0	<0.05	0.02	0
	1H.1H.2H.2H	µg/L	0.01 : 0.02 (Interlab)	<0.01	<0.01	0	<0.01	<0.02	0
	1H.1H.2H.2H	µg/L	0.01 : 0.02 (Interlab)	<0.01	<0.01	0	<0.01	<0.02	0
	Sum of PFHx	µg/L	0.01	0.4	0.39	3	0.4	0.28	35
	Sum of enHx	µg/L	0.01	0.42	0.4	5	0.42		
	Sum of US E	µg/L	0.01	0.02	0.01	67	0.02	0.01	67
	Sum of PFAS	µg/L	0.05	0.53	0.51	4	0.53		
	Sum of PFAS	µg/L	0.1 : 0.01 (Interlab)	0.59	0.56	5	0.59	0.42	34
MAH	1,2,4-trimet	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,3,5-trimet	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Styrene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Total MAH	mg/l	0.003	<0.003	<0.003	0	<0.003		
	Bromobenze	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Isopropylbe	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
Miscellaneous	1,2-dibromc	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Bromometh	mg/l	0.001 : 0.01 (Interlab)	<0.001	<0.001	0	<0.001	<0.01	0
	Dibromome	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Iodomethan	mg/l	0.001	<0.001	<0.001	0	<0.001		
	4-Methyl-2-	mg/l	0.001	<0.001	<0.001	0	<0.001		
	Methyl Ethy	mg/l	0.001	<0.001	<0.001	0	<0.001		
us Hydrocarbons									
Chlorinated	1,2-Dichloro	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,3-dichloro	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,4-dichloro	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Chlorobenze	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
Benzenes									
Trihalometh	Dibromochl	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Chloroform	mg/l	0.005 : 0.001 (Interlab)	<0.005	<0.005	0	<0.005	<0.001	0
	Tribromome	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Bromodichl	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
anes									
Organic Sulf	Carbon disu	mg/l	0.001	<0.001	<0.001	0	<0.001		
ur Compounds									
Ionic Balanc	pH (Lab)	PH UNITS	0.1	5.8	6	3	5.8		
e									
EPA VIC - IW	Chlorinated	mg/l	0.005	<0.005	<0.005	0	<0.005		
	Other Chlor	mg/l	0.005	<0.005	<0.005	0	<0.005		

*RPDs have only been considered where a concentration is greater than 1 times the EQL.

**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 30 (1-10 x EQL); 30 (10-30 x EQL); 30 (> 30 x EQL))

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories.

Any methods in the row header relate to those used in the primary laboratory

Appendix N Statistical Analyses

	A	B	C
1			
2	Sample ID	TRH C16-C34 (mg/kg)	
3	BH01_0.4-0.5	100	
4	BH01_1.1-1.2	100	
5	BH02_0.2-0.3	530	
6	BH02_1.1-1.2	100	
7	BH03_0.3-0.4	220	
8	BH03_0.6	100	
9	BH04_0.2-0.3	100	
10	BH04_0.7-0.8	100	
11	BH05_0.4-0.5	120	
12	BH06_0.2-0.3	100	
13	BH07_0.2-0.3	100	
14	BH08_0.2-0.3	100	
15	BH09_0.2-0.3	290	
16	BH10_0.5-0.6	100	
17	BH11_0.3-0.4	100	

	A	B	C	D	E	F	G	H	I	J	K	L
1	UCL Statistics for Uncensored Full Data Sets											
2												
3	User Selected Options											
4	Date/Time of Computation			24/06/2021 3:27:21 PM								
5	From File			WorkSheet.xls								
6	Full Precision			OFF								
7	Confidence Coefficient			95%								
8	Number of Bootstrap Operations			2000								
9												
10												
11	C1											
12												
13	General Statistics											
14	Total Number of Observations					15	Number of Distinct Observations					5
15							Number of Missing Observations					1
16	Minimum					100	Mean					150.7
17	Maximum					530	Median					100
18	SD					118.7	Std. Error of Mean					30.65
19	Coefficient of Variation					0.788	Skewness					2.767
20												
21	Normal GOF Test											
22	Shapiro Wilk Test Statistic					0.512	Shapiro Wilk GOF Test					
23	5% Shapiro Wilk Critical Value					0.881	Data Not Normal at 5% Significance Level					
24	Lilliefors Test Statistic					0.402	Lilliefors GOF Test					
25	5% Lilliefors Critical Value					0.229	Data Not Normal at 5% Significance Level					
26	Data Not Normal at 5% Significance Level											
27												
28	Assuming Normal Distribution											
29	95% Normal UCL					95% UCLs (Adjusted for Skewness)						
30	95% Student's-t UCL					204.7	95% Adjusted-CLT UCL (Chen-1995)					224.5
31							95% Modified-t UCL (Johnson-1978)					208.3
32												
33	Gamma GOF Test											
34	A-D Test Statistic					3.219	Anderson-Darling Gamma GOF Test					
35	5% A-D Critical Value					0.744	Data Not Gamma Distributed at 5% Significance Level					
36	K-S Test Statistic					0.424	Kolmogrov-Smirnoff Gamma GOF Test					
37	5% K-S Critical Value					0.223	Data Not Gamma Distributed at 5% Significance Level					
38	Data Not Gamma Distributed at 5% Significance Level											
39												
40	Gamma Statistics											
41	k hat (MLE)					3.224	k star (bias corrected MLE)					2.624
42	Theta hat (MLE)					46.73	Theta star (bias corrected MLE)					57.42
43	nu hat (MLE)					96.73	nu star (bias corrected)					78.71
44	MLE Mean (bias corrected)					150.7	MLE Sd (bias corrected)					93.01
45							Approximate Chi Square Value (0.05)					59.27
46	Adjusted Level of Significance					0.0324	Adjusted Chi Square Value					57.2
47												
48	Assuming Gamma Distribution											
49	95% Approximate Gamma UCL (use when n>=50))					200.1	95% Adjusted Gamma UCL (use when n<50)					207.3
50												
51	Lognormal GOF Test											
52	Shapiro Wilk Test Statistic					0.569	Shapiro Wilk Lognormal GOF Test					

Appendix O Monitoring Well Survey

10 June 2021

Our Ref: 12447

RE: MONITORING WELLS
PROPERTY: KENSINGTON STREET, KOGARAH

Point	MGA COORDINATES		AHD HEIGHTS		Type
	Easting	Northing	Top of Pipe	Surface Level	
BH01	327495.6	6239960.6	31.05	31.175	Flush
BH06	327527.1	6240030.5	31.58	31.675	Flush
BH08 (PSM)	327562.9	6240056.4	30.48	30.585	Flush
BH09	327576.0	6240041.1	30.73	30.845	Flush
BH10 (PSM)	327496.2	6239959.6	31.03	31.13	Flush

Methodology: RTK GNSS (GDA2020) for position (+/-10mm)
Differential levelling for MW height (+/-3mm)

AHD Origin: SSM 90255 RL 31.776




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