St George Private Hospital Expansion
119-129 Princes Highway, 2 Hogben St & 1 South St, Kogarah, NSW

Detailed Site Investigation

Akalan Projects Pty Ltd



Reference: 754-SYDEN381816-R02.Rev3

10 November 2025

ST GEORGE PRIVATE HOSPITAL EXPANSION

119-129 PRINCES HIGHWAY, 2 HOGBEN ST & 1 SOUTH ST, KOGARAH, NSW

Report reference number: 754-SYDEN381816-R02.Rev3
10 November 2025

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Restriction on Disclosure and Use of Data
This report must be read in the context of the full report and the attached limitations, titled Important Information About Your Tetra Tech Coffey Environmental Report (included as Appendix A).

EXECUTIVE SUMMARY

Tetra Tech Coffey was commissioned by Akalan Projects Pty Ltd to undertake a Detailed Site Investigation (DSI) in support of a State Significant Development Application (SSDA) for the expansion of St George Private Hospital, Kogarah, NSW. This DSI covers the proposed clinical tower site only and excludes the main hospital campus. The investigation was undertaken in general accordance with NSW EPA guidelines, ASC NEPM (2013), and relevant statutory requirements under the EP&A Act 1979.

Objectives

- Characterise potential contamination in soil and groundwater.
- Provide a preliminary in situ waste classification of soil and bedrock to be excavated.
- Identify potential exposure pathways and receptors.
- Assess site suitability for development as a health services facility.
- Provide recommendations for remediation or management where required.

Scope of Works

- Review of site history, SafeWork Schedule 11 hazardous chemicals records, and BYDA underground services.
- Non-destructive Ground Penetrating Radar (GPR) survey to assess potential subsurface infrastructure.
- Drilling of ten shallow boreholes (BH101–BH110) to refusal depths on bedrock (0.95–1.65 m) and collection of soil samples within the site area, excluding the southern portion of the site which is currently occupied by buildings and was inaccessible for sampling.
- Groundwater monitoring via three pre-existing wells (BH01–BH03).
- Laboratory analysis of soils and groundwater for heavy metals, asbestos, hydrocarbons (TRH, BTEX, PAH, VOCs), and other contaminants of potential concern (CoPCs).
- Data validation and quality assurance review.

Conclusions

In summary the following key conclusions were drawn from the findings of this investigation:

- The NSW SafeWork Schedule 11 Hazardous Chemicals on Premises records search did not identify any license records relating to the storage of hazardous chemicals in the site. This search covered Lots 1 to 5 DP8864 and Lot A to C DP358876 (entire site).
- The GPR scan indicated UST was not detected with GPR sweeps, though the locator noted that there is a possibility that a UST may be present beneath areas where parked cars restricted the survey.
- Ground conditions encountered within the site comprised asphalt at the surface underlain by fill soils and sandy clay / silty clay natural soils and sandstone bedrock. Inclusions of brick, tile, terracotta, PVC, glass, metal, wire, plastic and charcoal fragments were observed in the fill exposed during the investigation.
- Potential ACM was not observed in the fill during drilling, though it should be noted that the drilling technique is not favourable to observing asbestos. Test pits are more favourable for observing asbestos in fill.
- In general, the analysis of soil samples collected from the investigation locations did not record contamination at concentrations that poses potentially unacceptable risks to human or environmental receptors for intended for the proposed development (health services facility).
- Elevated concentrations of toluene and metals were detected in groundwater. It is noted that the metals are likely indicative of regional aquifer background concentrations, and the toluene was detected at very low concentration (within the assessment criteria) in BH01.
- Given groundwater was encountered at depths ranging between 5 m and 6.4 m, a dewatering management plan should be considered depending on the construction method applied. Reference should be made to the geotechnical reports.

- Copper, nickel, lead and zinc exceeded the 95% LOSP in the groundwater sampled. The CSM presented in Section 3 indicates that an exposure pathway may exist between the groundwater and the identified human receptors via groundwater seepage into the proposed basement, though, it is anticipated seepage into the proposed basement would be managed via implementation of a dewatering management plan. Reference should be made to the geotechnical reports.
- Formaldehyde may present a potential dermal (contact) and/or vapour risk to workers during construction of the basement, regardless of the implementation of a dewatering management plan. Groundwater impacted with formaldehyde seeping into the basement post construction could pose a dermal (contact) and/or vapour risks to uses post construction. Chloroform and carbon disulphide if present in groundwater may also represent dermal (contact) and/or vapour risks. Further assessment regarding the potential risk to human health during the construction and post construction phases from formaldehyde, and potentially chloroform and carbon disulphide, is required. This assessment is beyond the scope of this report.
- The CSM indicates a potentially complete pathway via groundwater to potential environmental receptors (aquatic receptors on and off-site), though given that the receiving waters (Botany Bay) are considered to be relatively impacted waterways, it is considered that the metals in groundwater do not warrant further investigation or remediation.
- Preliminary In Situ Waste Classification indicated natural soils are preliminarily classified as VENM and fill is preliminary classified as General Solid Waste (Non-Putrescible).

Based on the findings, the following is recommended:

- The southern portion of the site which is currently occupied by a building was not investigated as it was inaccessible for sampling. This portion of the site will require investigation. The following recommendations are made:
  - A hazardous building material survey should be completed prior to demolition.
  - Following demolition of the building contamination investigations should be undertaken within the area not sampled during this study. These investigations should give consideration to potential for sewer lines to retain residual contaminants from any wastes disposed to sewer.
- Given the past industrial uses of the site and the potential for contamination residues to remain in any subsurface structures, the removal of the sewer line and other underground infrastructure, should be appropriately managed so as not to cross contaminate the ground during removal.
- An Unexpected Finds Protocol should be developed to manage potential contamination conditions inconsistent with those encountered in this study during the proposed excavation works.
- A human health risk assessment should be completed by a Human Health Risk Assessor to further assess the potential risk to human health during the construction and post construction phases from formaldehyde, and potentially chloroform and carbon disulphide, is required. This assessment is beyond the scope of this report. It is recommended that additional rounds of groundwater sampling and analysis are completed as part of this risk assessment

Overall, it is recommended that a Remedial Action Plan (RAP) is prepared to cover the above mentioned additional works, and management of the removal of existing sub-surface services / infrastructure and the unexpected finds. The RAP should be implemented during demolition, excavation and construction.

It is concluded that the site can be made suitable for the proposed use as a health facility subject to the outcomes of the recommended additional works and implementation of all associated remediation / management measures that may be recommended from the additional works.

This report should be read in conjunction with the Important Information about Your Tetra Tech Coffey Environmental Report presented in Appendix A.

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APPENDICES

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Appendix B: Figures & Proposed Development Plans

Appendix C: Dangerous Goods Search & GPR Report

Appendix D: Borehole Logs (BH101-BH110 & BH01-BH03), Notes & Groundwater Field Data

Appendix E: Result Tables

Appendix F: Calibration Certificates

Appendix G: Data Validation Assessment

Appendix H: Laboratory Test Reports

ACRONYMS/ABBREVIATIONS

Acronyms/Abbreviations	Definition
ABC	Ambient Background Concentration
ACM	Asbestos Containing Material
AEC	Area of Environmental Concern
AHD	Australian Height Datum
AP	Akalan Projects
AS	Australian Standard
ASC NEPM	National Environmental Protection (Assessment of Site Contamination) Measure 1999 as amended 2013
ASS	Acid Sulfate Soil
BTEX	Benzene, Toluene, Ethylbenzene and Xylene
BYDA	Before You Dig Australia
Coffey	Tetra Tech Coffey Pty Ltd
CoPC	Contaminant of Potential Concern
CSM	Conceptual site model
DP	Deposited Plan
DPHI	Department of Planning, Housing and Infrastructure
DQI	Data Quality Indicator
DQO	Data Quality Objective
DSI	Detailed Site Investigation
EIL	Ecological Investigation Level
EMP	Environmental Management Plan
EP&A Act	Environmental Planning and Assessment Act 1979
ESL	Ecological Screening Level
GIA	Groundwater Impact Assessment
GIR	Geotechnical Investigation Report
GPR	Ground Penetrating Radar
HIL	Health Investigation Level
HSL	Health Screening Level
LEP	Local Environment Plan
LOR	Limit of reporting
mbgl	Metres below ground level
NATA	National Association of Testing Authorities
NSW EPA	NSW Environment Protection Authority
OCP	Organochlorine pesticides
PAH	Polycyclic aromatic hydrocarbons
PID	Photoionisation detector
QA/QC	Quality Assurance / Quality Control
RPD	Relative percentage difference
SAQP	Sampling Analysis and Quality Plan
SEARs	Secretary's Environmental Assessment Requirements
SSDA	State Significant Development Application

SVOC	Semi volatile organic compound
TRH	Total Recoverable Hydrocarbons
UPSS	Underground Petroleum Storage System
UST	Underground Storage Tank
VOC	Volatile organic compounds

1. INTRODUCTION

1.1 OVERVIEW

Tetra Tech Coffey Pty Ltd (Coffey) was engaged by Akalan Projects Pty Ltd (AP) to undertake a Detailed Site Investigation (DSI) in support of a State Significant Development Application (SSDA) submitted to the Department of Planning, Housing and Infrastructure (DPHI) under Part 4 of the Environmental Planning and Assessment Act 1979 (EP&A Act 1979).

The SSDA seeks approval for the expansion of the St George Private Hospital. Specifically, the SSDA seeks consent for two components: the first being the construction of a health services facility (hospital), and the second relating to upgrades to the main hospital campus, including a new emergency department.

For reporting purposes, the site subject to the new health services facility (hospital) is referred to in this report as 'the site' and the existing main hospital campus is referred to as 'the main hospital campus.' This DSI covers the proposed clinical tower site only and excludes the main hospital campus.

The site is located on the Princes Highway, surrounded by Bank Lane to the west, Hogben Street to the north and the Princess Highway to the East (refer to Figure 1 in Appendix B.

The DSI responds to the Secretary's Environmental Assessment Requirements (SEARs) issued by DPHI on 30 June 2025 in relation to the project.

1.2 BACKGROUND

AP previously engaged Coffey to undertake a Preliminary Site Investigation (PSI), a Groundwater Impact Assessment (GIA) and a Geotechnical Investigation Report (GIR) for the site as detailed in the following reports:

- Coffey (2025a) St George Private Hospital, Groundwater Impact Assessment (report reference: 754-SYDGE381816AB, dated 20 June 2025) (Coffey, 2025a).
- Coffey (2025b) St George Private Hospital, Geotechnical Investigation Report (report reference: 754-SYDGE381816AA, dated 27 June 2025) (Coffey, 2025b).
- Coffey (2025c), Preliminary Site Investigation – Akalan Projects Pty Ltd, 119 Princes Highway, Kogarah (report reference: 754-SYDGE381816-AC-Rev2, dated 5 September 2025 (Coffey, 2025c).

The PSI (Coffey, 2025c) identified a number of potentially complete exposure pathways between potential contamination sources and both human and environmental receptors, given the proposed development will introduce sensitive receptors onto the site, both during construction and future use of the site. It was recommended that intrusive investigation be undertaken in order to provide further confidence in ground contamination conditions and the significance of risk that contamination (if present) would pose in a future development scenario. A Dangerous Goods Search was also recommended in the PSI to confirm the current or former presence of underground storage tanks (USTs) at the site.

1.3 OVERVIEW OF PROPOSED DEVELOPMENT

The SSDA requests approval for the expansion of the St George Private Hospital, seeking consent for two components: 1) the construction of a health services facility (hospital) at the site; and 2) upgrades to the main hospital campus, including a new emergency department.

In summary, approval for the following is sought for the site:

- Site preparation works and bulk earthworks, including tree clearing.
- Construction of a seven storey hospital.

- Construction of a five level basement carpark providing a total of 241 parking spaces. Proposed development plans provided in Appendix B indicate that the oncology unit will be located on the lowest basement level.
- Ancillary office, amenities, and loading dock provisions.
- Basement storage and a substation.
- Landscaping works.

The architectural plans for the proposed development are included in Appendix B.

1.4 SEARS RELEVANT TO THIS REPORT

This report has been prepared to respond to the SEARs issued for the St George Private Hospital Expansion project. This DSI was recommended to be completed based on the findings of the PSI (Coffey, 2025c). The PSI (Coffey, 2025c) was in prepared in response to SEARs item 17.

1.5 OBJECTIVES

The objectives of this DSI were to:

- Characterise potential contamination in soil and groundwater.
- Provide a preliminary in situ waste classification of soil and bedrock to be excavated.
- Identify potential exposure pathways and receptors.
- Assess site suitability for development as a health services facility.
- Provide recommendations for remediation or management where required.

1.6 SCOPE OF WORKS

In order to meet the above objectives, the following scope of works was undertaken:

- Search of NSW SafeWork Schedule 11 Hazardous Chemicals on Premises records.
- Fieldwork preliminaries including completion of a Before You Dig Australia (BYDA) search and preparation of a site-specific Health, Safety, Environment and Quality (HSEQ) plan including safe work method statements (SWMS).
- Attendance at the site by a suitably qualified Environmental Scientist from Coffey to observe site conditions and coordinate investigation activities.
- Clearance of soil sampling locations by an accredited underground service locator, including a non-destructive Ground Penetrating Radar (GPR) scan of the site as recommended in the PSI (Coffey, 2025c) to assess the potential for buried infrastructure including but not limited to stormwater, sewer lines and underground storage tanks (UST) etc. at the site. The outputs from the survey also assisted with locating boreholes for the DSI.
- Intrusive investigation including:
  - Ten boreholes (BH101 to BH110) were drilled using a hand auger across a generally systematic grid over the site to refusal depths of between 0.95 m and 1.65 m mbgl. The surficial asphalt was cored before a hand auger was used to progress to approximately 1.2 m, then push tube methods were employed. The area investigated excluded the southern portion of the site which is currently occupied by buildings and was inaccessible for sampling.
  - Groundwater samples were collected from the three existing groundwater monitoring wells previously installed for the geotechnical investigation (BH01-BH03).
- The subsurface conditions encountered were recorded at each sampling location including indicators of potential contamination and the presence of anthropogenic materials.
- Laboratory analysis of soil and groundwater samples for identified contaminants of potential concern (COPC).

- Preparation of this DSI report.

1.7 TECHNICAL FRAMEWORK

This DSI was prepared in general accordance with the following legislation, industry standards, codes of practice, and guidance documents, where relevant:

- NSW Contaminated Land Management (CLM) Act, 1997 (CLM Act 1997)
- National Environment Protection Council (2013) National Environment Protection (Assessment of Site Contamination) Measure, 1999 (amended 2013) (ASC NEPM)
- NSW Environmental Protection Authority (EPA) (2020) Guidelines for Consultants Reporting on Contaminated Land (Contaminated Land Guidelines)
- NSW EPA (2022) Sampling Design Part 1 – Application: Contaminated Land Guidelines (Sampling Design Guidelines)
- NSW EPA (2022) Sampling Design Part 2 – Interpretation: Contaminated Land Guidelines (Sampling Design Guidelines)
- NSW EPA (2017) Guidelines for the NSW Site Auditor Scheme (3rd Edition)
- CRC Care Technical Report No. 10, Health Screening Levels for Petroleum Hydrocarbons in Soil and Groundwater, 2011 (Friebel, Nadebaum, 2011)

2. SITE INFORMATION

2.1 SITE LOCATION

Site identification details are summarised in Table 1. The location and boundary of the site are shown in Figures 1 to 4 provided in Appendix B.

Table 1: Site Location Details

Item	Description
Address	119-129 Princes Highway, 2 Hogben Street and 1 South Street, Kogarah, NSW, 2217
Site area	Approximately 2,200 m^2 (0.22 ha)
Title identification	Lot A, B & C DP358876 (termed as the northern portion of the site) Lot 1 DP8864, Lot 2 DP8864, Lot 3 DP8864, Lot 4 DP8864 (termed as the middle portion of the site) Lot 5 DP8864 (termed as the southern portion of the site)
Local Government Area	Georges River Council
Current land use	Car park
Proposed land use	Special Purpose – Infrastructure (Land Zone SP2)
Current Land zoning	SP2 – Infrastructure & MU1 – Mixed Use

2.2 SITE DESCRIPTION

An environmental scientist from Coffey completed a walkover of the site on the 11th of April 2025 as part of the PSI (Coffey, 2025c) and the following observations were made.

- The site was generally flat.
- At the time of the walkover the site was utilised as a car park with two electric boom gates allowing access and egress onto Hogden Avenue to the north.
- The site surface comprised an asphalt pavement and appeared in generally good condition.
- Small amounts of litter were noted in the south-west corner of the site.
- Mature trees were observed along the northern, western and eastern boundary and appeared to be in relatively healthy condition.
- The southern portion of the site comprised a two-storey white brick building with a shop frontage to the Princess Highway and rear access into Bank Lank, which is currently utilised as a confectionery store. This area was not investigated as it was not accessible for sampling.

2.3 SURROUNDING LAND USES

Table 2 presents the surrounding land uses based on observations made from accessible areas within the site and site boundary during the walkover, and a review of recent, web-based aerial imagery.

Table 2: Surrounding Land Uses

Direction	Description
North and North west	Mixed residential and commercial buildings, including shops and apartments.
North-east and East	The Princess Highway with Kogarah TAFE NSW and James Cook Boys Technology High School directly opposite and low-to-medium density housing further beyond.
South	St. George Private Hospital and Specialist Suites.
West	Multi storey carpark for St George Hospital,, mixed residential and commercial buildings, including shops and apartments.

2.4 UNDERGROUND SERVICES AND GPR

The BYDA plans were reviewed for the investigation to establish whether major underground services exist at the site or in the immediate vicinity that could act as a preferential pathway for contamination migration. A subsurface drainage line was identified which ran north-south across the Princes Highway side of the site.

Service clearance of borehole locations and the GPR scan undertaken prior to completing the subsurface investigations is discussed in Section 2.9.

2.5 ENVIRONMENTAL SETTING

2.5.1 Topography and Drainage

NSW Elevation data available from Google Earth indicates that the western boundary of the site has an elevation of 20 m Australian Height Datum (AHD) and gently slopes towards the east south-east.

2.5.2 Geology and Soils

Reference to the MinView Surface Geological Mapping database indicates that the site is underlain by Hawksbury Sandstone. Hawksbury sandstone is middle Triassic in age and comprises medium to coarse grained quartz sandstone displaying small to large scale, high angle cross bedding with minor shale and laminite lenses.

Reference to the Bayside Local Environment Plan 2021 indicates that the site does not lie within an Acid Sulfate Soils risk area, however it is noted that Class 5 areas were mapped at less than 100m to the east of the site towards Botany Bay.

2.5.3 Registered Groundwater Bore Search

A search of groundwater bore licenses was undertaken on 1 May 2025 as part of the PSI (Coffey, 2025c) using the Water NSW website (https://realtimedata.waternsw.com.au/). The results of the search did not identify any licensed groundwater bores within the site but indicated ten (10) registered groundwater works within an approximate 500 m radius of the Site. The purpose of all identified bores was either monitoring or domestic use. The majority of bores are located within the Botany Sands aquifer whilst the remaining bores utilised for monitoring wells are located at service station sites. All bores were relatively shallow in depth at approximately 6 m below ground surface. More detailed information can be found in the PSI (Coffey, 2025c).

2.5.4 Hydrogeology and hydrology

Surface water features (e.g. ponds / wetlands) are not present on site. Surface water from rainfall is expected to flow towards the subsurface stormwater drainage system that is present across the site. Groundwater and surface water would be expected to ultimately reach / discharge into Botany Bay, a marine ecosystem.

2.6 SITE HISTORY

Based on the Coffey (2025c) PSI, the site history can be summarised as:

- The northern part of the site has largely been occupied and originally utilised for residential purpose around 1943 following which it was developed into a large commercial building and utilised as a squash centre between 1965 to 1986 prior to being demolished and is now part of the existing carpark.
- The north eastern part of the site was predominantly utilised as a form of mechanics or workshop facilities between 1950 and 1970 prior to becoming a car park.
- The middle portion of the site remained largely as open space and likely a residential property containing a backyard between 1943 and at least 1970. Following this it appears to have been utilised for a commercial business including bottle exchange, service station and discount house (presumably for the sale of random goods).
- The southern portion of the site has remained very consistent and has had a building structure present since 1943. Despite the consistency, it has had a number of business activities during its life ranging from a mechanics to film processing laboratory to confectionery shop.

The surrounding areas were used for a combination of residential and commercial purposes. Over time, low density residential housing was replaced by additional infrastructure related to health service facilities as well as medium density apartments and townhouses.

More detailed information can be found in the PSI (Coffey, 2025c).

2.7 SCHEDULE 11 HAZARDOUS CHEMICALS ON PREMISES

The PSI (Coffey, 2025c) recommended that a Dangerous Goods Search be completed to confirm the former or current presence of USTs at the site.

The search was completed for the site as part of this DSI. The search did not identify any license records relating to the storage of hazardous chemicals in the site. The response of the search is presented in Appendix C1.

2.8 NON-DESTRUCTIVE GPR SCAN

A non-destructive Ground Penetrating Radar (GPR) scan of the site was completed by an accredited underground service locator as recommended in the PSI (Coffey, 2025c). The locator was accredited as follows:

- Certloc Certified Locating Organisation
- Certified Management System ISO9001:2015, IAO14001:2012, ISO45001:2018

The purpose of the scan was to assess the potential for buried infrastructure including but not limited to stormwater, sewer lines and underground storage tanks (UST) etc. to be present at the site. The report provided by the locator is presented in Appendix C2. The scan excluded the southern portion of the site which was occupied by a building and was inaccessible.

At the time of the scan, the majority of the site was free of cars. The locator advised that the cars should not have been a major issue as the locator was able to scan between parked vehicles where they were present. The same locator also advised they had previously done a GPR survey of the site for the Geotechnical Investigation and no signs of USTs were found, though a report was not prepared for the Geotechnical Investigation.

The GPR report indicated the following was completed:

- Visual site inspection.
- Review of available plans.
- EMI tracing, induction scans, passive scans and EMI scans.
- GPR scans.
- QL-C/QL-D mark up of services not able to be traced with EMI methods.
- Walkthrough with client representative onsite.
- Stormwater traced.
- Electrical lighting feeds and empty conduit traced.
- Unidentified pipeline crossing the site detected with GPR at an indicated depth of 600mm-800mm, as shown on the report presented in Appendix C.

The report also indicated:

- Hand excavation or NDD was recommended if works are planned within 1 m of a marked service
- UST was not indicated or detected with GPR sweeps.
- There is a small possibility that a UST may be present beneath a parked car, though, unable to confirm with lack of access to the entire site due the site being used as a car park at the time of the scan.

3. PRELIMINARY CONCEPTUAL SITE MODEL

A preliminary conceptual site model (CSM) was developed based on the findings of the PSI (Coffey, 2025c). A CSM is a representation of site-related information regarding potential sources of contamination, receptors and exposure pathways.

Contamination, if not managed appropriately, could pose a potential risk to human health or the environment. For an unacceptable risk to exist, there must be a plausible pollutant linkage between the source and a receptor by means of a transport mechanism (pathway).

3.1 AREAS OF ENVIRONMENTAL CONCERN

Table 3 presents the areas of environmental concern (AEC) which have been identified based on the findings of the PSI report (Coffey, 2025c).

Table 3: Summary of AECs

Potential Contaminating Activity / AEC	Contaminants of Potential Concern (COPC)	Comments
Fill material of unknown origin or quality on site, potentially associated with historical site development or surrounding land use changes.	• Heavy metals • Asbestos • Total Recoverable Hydrocarbons (TRH) • Polycyclic Aromatic Hydrocarbons (PAH) • Monoaromatic Hydrocarbons incl. Benzene, Toluene, Ethylbenzene and Xylene (BTEX) • Organic Pesticides (OCP & OPP) • Polychlorinated Biphenyls (PCB)	Fill may have been imported during past site development with source and composition being unknown. If not managed correctly this may result in contamination of the fill material within the site.
Dust deposition from main road traffic.	• Lead	The site is located on the Princess Highway which may have resulted in deposition of lead dust arising from leaded fuels over the years. When the middle lot was vacant (i.e. pre-1970), the site may have comprised largely bare earth/grass which may have enabled higher deposition rates for lead.
Historical business use at the site as a service station and mechanic and film processing.	• Heavy metals • Asbestos • Total Recoverable Hydrocarbons (TRH) • Polycyclic Aromatic Hydrocarbons (PAH) • Monoaromatic Hydrocarbons incl. Benzene, Toluene, Ethylbenzene and Xylene (BTEX) • Volatile Organic Compounds (VOCs) • Photographic chemicals (including silver) • Halogenated organics	The use of the north-eastern portion of the site as a mechanics and workshop and possibly service station for a long period of time together with the middle portion of the site briefly being a BP Service Station Site and to a lesser extent the southern building being used as a mechanics briefly may have resulted in the potential for USTs to be present that may have leaked over time. No evidence was observed of any fuel infrastructure being present. While the dangerous goods search undertaken as part of this assessment did not identify any USTs and neither did the GPR survey[1]; its possible tanks were previously removed, and residues of historic contamination may remain. The southern portion of the site's use as a mechanics to film processing centre may have given rise to contamination if poor chemical use and management and waste handling practices were adopted.
Weathering of hazardous building materials within current/former site structures that may contain asbestos. **Poor historic demolition practices resulting in deposition of hazardous materials in fill.**	• Heavy metals including lead • Asbestos (bonded and friable forms).	It is likely that previous site buildings may have contained hazardous building materials, which may have resulted in contamination to the soils beneath the exiting site building. There is also potential for hazardous building materials to be present in the current and former structures which, if not managed correctly may result in contamination of the fill material within the site.

[1] Although the GPR survey did identify a small possibility that a UST may be present under a parked car, but without access was unable to confirm.

Historical land uses on nearby properties undertaking potentially contaminating activities (including hospital)	Heavy metals, TRH, BTEX & PAH Formaldehyde Groundwater via on site migration.	A number of historical businesses on properties surrounding the site were identified to be potential off-site sources of contamination (hospital and film processing). Previous investigations have identified elevated levels of TRH, lead and the presence of asbestos in surface and fill materials at adjoining properties.

3.2 RECEPTORS, POTENTIAL TRANSPORT MECHANISMS & EXPOSURE PATHWAYS

Table 4 summarises the potentially affected media, key potential receptors, and transport mechanisms assuming future use of the site . A concept design for the site has been proposed which will comprise an expansion of the health services facility for the St. George Private Hospital.

Table 4: Summary of Potentially affected media, receptors, transport mechanisms and exposure routes

Consideration	Information
Potentially Affected Media	**Soil** – fill material and potentially the upper layers of natural soil and/or bedrock **Groundwater** – secondary contamination source via infiltration (dissolution/leaching) through potentially impacted fill/natural soil and leakage of USTs, sewer and stormwater drains.
Potential Transport Mechanisms & Exposure Pathways	• Dermal contact with contaminated soil and water • Incidental ingestion of contaminated soil and/or groundwater • Inhalation of airborne dusts, vapours, and fibres • Lateral and vertical water migration • Surface water flow including suspended solids. • Preferential flows via overland/subsurface drainage • Ecological uptake mechanisms
Potential Receptors & Discussion of Pollutant Linkages	***Site Users – Site Worker & Visitor (Current and Future Site Use)*** • Potential for exposure via dermal contact, and ingestion/inhalation of soil/fibres is assessed to be low/negligible where current asphalt cover is maintained given site visits are typically infrequent and short duration. • Potential for contact with perched water or surface water is considered to be low/negligible (assuming no deep maintenance works). ***Future Construction/Maintenance Workers*** • Potential exposure to impacted soil and water via dermal contact, ingestion and inhalation of soil, vapours and fibres considered possible during site redevelopment and subsurface maintenance activities. ***Neighbouring Site Users*** • Potential for exposure via inhalation of dust/fibres to be to be low/negligible in the context of the current site use. The potential for exposure increases during future site development/construction activities. • Contact with water is considered unlikely given drainage infrastructure is present. • Surface water unlikely to convey potential contaminated soil onto neighbouring sites. ***Terrestrial Ecology – Mature trees and landscaping on site*** • Mature trees and established vegetation on site may be exposed to potential contamination via plant uptake mechanisms, where they are in direct contact with potentially contaminated soils. A plausible pollutant linkage is considered to be low/negligible for the current site use given that existing vegetation did not appear to exhibit visible signs of stress during the site walkover, however contamination (if present) may pose unacceptable risks to new plants/tress should the site be redeveloped although given the proposed development will consume the vast majority of the sites footprint, this is also considered to be a low to negligible risk. If a risk was present, it can be managed through planting in imported good quality soils. • Not considered further given that the proposed basement will cover the entire footprint of the site.

3.3 ASSESSMENT OF EXPOSURE PATHWAYS

Table 5 summarises the identified potential human exposure pathways in the context of the future use. Overall, it is considered that there may be potentially complete pathways between potential contamination and exposure to humans given the current and likely future use of the site. Further assessment is required to validate this statement.

Table 5: Summary of Potentially Complete Pathways - Human Health

Human Receptor	Exposure Pathways Potentially Complete?				
	Dermal Contact (soil and/or groundwater)	Ingestion of Soil	Inhalation of Dust/Fibres	Indoor Inhalation of Gases/Vapours	Groundwater Use
Site Visitor (Current Use)	×	×	×	×	×
Construction/Maintenance Worker	✓	✓?	✓?	✓?	×
Neighbouring Site Users	×	×	×	✓?	NA
Commercial (Workers and Visitors)	×	×	×	✓?	×

Notes: ✓ - Complete Pathway, ✓? – Potentially Complete Pathway (dependant on site conditions), × - Incomplete Pathway, NA – Pathway not applicable

Table 6 summarises the identified key potential exposure pathways for environmental receptors in the context of the current land use and future land use, considering those permitted under the land zoning as described in Table 1. Overall, it is considered that there may be potentially complete pathways between potential contamination and exposure to environmental receptors given the current and likely future use of the site.

Table 6: Summary of Potential Complete Pathways - Environmental

Environmental Receptor	Exposure Pathways Potentially Complete?			
	Soil Contamination in upper 2m	Groundwater	Surface Water	Plant Uptake Mechanisms
Aquatic Receptors (Off Site)	✓?	✓	✓?	NA

Notes: □ - Complete Pathway, □? – Potentially Complete Pathway (dependant on site conditions), □ - Incomplete Pathway, NA Pathway not applicable

4. SAMPLING ANALYSIS AND QUALITY PLAN

4.1 DATA QUALITY OBJECTIVES

The Contaminated Land Guidelines: Consultants Reporting on Contaminated Land (NSW EPA, 2020) and other NSW EPA published and endorsed guidelines, including the *Contaminated Land Guidelines: Sampling Design* (NSW EPA, 2022) and the *National Environment Protection (Assessment of Site Contamination) Measure 1999*, as amended in 2013 (NEPM, 2013) reference the United States (US) EPA *Guidance on Systematic Planning Using the Data Quality Objectives Process* (US EPA, 2006) as a suitable systematic planning approach for a DSI.

The approach involves an iterative seven-step process for developing a set of performance and acceptance criteria. The nature and quality of the data collected for a particular assessment can be determined by the data quality objectives (DQOs), which should be used to evaluate whether there is enough data of a high enough quality to support decision making. The US EPA defines the process as “a strategic planning approach based on the Scientific Methods that is used to prepare for a data collection activity. It provides a systematic procedure for defining the criteria that a data collection design should satisfy, including when to collect samples, where to collect samples, the tolerable level of decision errors for the study, and how many samples to collect.”

To define the purpose, type, quantity and quality of data required for the investigation, the seven step DQOs approach was adopted. The DQOs for this DSI are summarised below in Table 7.

The seven-step process for this investigation and data quality indicators (DQI) adopted are discussed and summarised in Appendix G.

Table 7: Data Quality Objectives

DQO	Outcome
Step 1: State the problem	The PSI (Coffey, 2025) identified a number of AECs which have the potential to pose a risk to human health and/or the environment during current and future use of the site. A better understanding on the nature and extent of contamination (if present) is required in order to assist AP with decisions regarding the development of the site. The objectives of the DSI are outlined in Section 1.4. The planning team for the design of this investigation was the Coffey Project Team (Project Manager and Project Director) in consultation with AP representatives.
Step 2: Identify the goal (decision)	To address the objectives of the DSI, the decisions to be made are: • Are concentrations of CoPC present in soil and groundwater which may have resulted from current or recent historic land use? • If contamination is identified, is there a potential that it is migrating offsite? • Are there unacceptable risks to onsite or offsite receptors from soil or groundwater within the site? • Are there any significant data gaps which may require further assessment?
Step 3: Identify information inputs	The information inputs for the assessment: • Site environmental setting and history, from the PSI (Coffey, 2025c). • Data to be collected during field works, including visual and olfactory observations, field measurements and logging of the subsurface profile. • Laboratory analytical data. • Conceptual Site Model. • Relevant legislation and regulatory guidelines.
Step 4: Define the boundaries of the study	The study boundaries are defined by the boundaries of the site as shown in Figures 1 to 4 in Appendix B, excluding the southern portion of the site which is currently occupied by a building and was inaccessible for sampling

	The vertical boundary for the assessment was deemed to be the maximum depth of BH101 to BH110 (1.65 m). The bedrock cored during installation of groundwater wells provide some additional information on bedrock conditions to 23.22m depth although no sampling or chemical analyses were undertaken on the bedrock. The temporal boundaries of the study are the time period the investigation was completed.
Step 5: Develop a Decision Rule	The decision rules to be applied to sampling completed for this DSI include: • If the concentrations of analytes are below the adopted assessment criteria for samples representative of the exposure pathway, then the risk to human health and / or the environment can be considered to be acceptable for the intended land use. • If the concentrations of analytes are above the adopted assessment criteria for samples representative of the exposure pathway, then further assessment is required which may include the following: ▪ Review of the results in-conjunction with a refined CSM to consider if exposure pathways and associated representative concentrations represent an unacceptable risk to potential receptors for the intended land use. ▪ Completion of further investigations (if required) to refine the understanding of extent and magnitude of contamination. This may include works to characterise groundwater and surface water quality. ▪ Use of statistics (where appropriate) in the assessment of data to develop relevant exposure concentrations. ▪ Completion of a site-specific risk assessment to refine assumptions of intake to relevant specific site pathways and indicate whether the contamination poses an unacceptable risk to receptors. If the completion of the above determines there is an unacceptable risk to receptors, appropriate remediation and / or management actions would be developed to make the site suitable for its intended use.
Step 6: Specify performance of acceptance criteria	There are two main sources of false results which may cause decision errors: • Sampling errors, which occur when the samples collected are not representative of the conditions within the investigation area; and • Measurement errors, which occur during sample collection, handling, preparation, analysis and data reduction. The null hypothesis, which is an assumption assumed to be true in the absence of contrary evidence, for this study is 'contamination exists at the site and is potentially migrating offsite via groundwater unless risks to human health and the environment are proved to be acceptable and there is no plausible offsite migration pathway.' False results may lead the decision maker to make the following errors: • Type I error (a false positive decision error) – wrongly determining that contamination is not present when the reverse is true (wrongly rejecting H0), consequently risking human health or environmental impacts. • Type II error (a false negative decision error) – wrongly determining that contamination is present when it actually is not (wrongly accepts H0), consequently placing unnecessary financial and/or resource burdens on the project. The acceptable limits on the likelihood of making decision errors are nominated as α risk = 0.05 (Type I error) and β risk = 0.2 (Type II error). Assessment of decision errors has been based on the Data Quality Indicators (DQIs) of precision, accuracy, representativeness, comparability and completeness. Data quality assessment was applied in accordance with the NEPM (2013) and, Sampling Design Guidelines (EPA, 2022). Further detail of data quality indicators, acceptance criteria and data validation in presented in Appendix G. The errors outlined above do not readily apply to the assessment of asbestos in soil as presence / absence was completed. The key DQI for asbestos was based on the competence of the field staff conducting the investigation.
Step 7: Optimise the design for obtaining data	The methodology and rationale for obtaining relevant data for this DSI is described in the following sections of this report. The methodology and analytical plan were reviewed during the DSI based on site constraints (being exclusion of the southern portion of the site due to it being inaccessible), visual observations and interim review of results, in consultation with AP.

4.2 RATIONALE FOR SAMPLING PATTERN AND DENSITY

Coffey adopted a broadly systematic grid sampling approach to complete the investigation based on the type / character of the AECs identified. This approach was considered consistent with the guidance provided within the Sampling Design Guidelines (NSW EPA, 2022).

A judgemental sampling plan (on a broad grid) was used which was developed giving consideration to the available site history, potential AECs identified in Table 3 and providing coverage of the site. The sampling density exceeded the minimum recommended sampling density set out within the NSW EPA's Sampling Design Guidelines for a 2,200 m2 (0.22 ha) area, which recommends 9 sampling locations. It was considered that including 10 sampling points increases the robustness of the investigation.

The sampling pattern and density adopted for the investigation is summarised below:

- Ten boreholes (BH101 to BH110) were advanced across a generally systematic grid over the site to refusal depths of between 0.95 m metres below ground level (mbgl) and 1.65 m. The surficial asphalt was cored before a hand auger was used to progress to approximately 1.2 m, then push tube methods were employed.

The borehole locations are presented in Figure 3 in Appendix B.

4.3 FIELD INVESTIGATION

Fieldwork was carried out by a qualified and experienced environmental consultant from Coffey on 11 August 2025 in accordance with Coffey's Standard Operating Procedures (SOPs), which are based on relevant industry guidelines, Australian Standards, and the ASC NEPM. This consultant has received formal asbestos training and holds experience in the identification of asbestos in the field.

A calibration record for the equipment used during fieldwork is provided in Appendix F.

The soil investigation works were conducted on 11 August 2025 and consisted of drilling and sampling soil from 10 boreholes.

A groundwater monitoring event (GME) was undertaken on 11 August 2025 utilising the groundwater monitoring wells installed for the geotechnical investigation (BH01 to BH02). Logs are provided in Appendix D.

Investigation works generally followed the methodology outlined in Table 8.

Table 8: Sampling Methodology

Activity	Detail / Comments
Below Ground Service Clearance	BYDA service plans for the site were reviewed, followed by each location being scanned by an accredited service locator prior to commencement of intrusive investigation works. Investigation locations were scanned by a suitably qualified and experienced underground services clearance sub-contractor.
Borehole Advancement and Soil Sampling	Boreholes BH101 to BH110 were positioned in a general systematic grid over the site. Each borehole was advanced to refusal depths of between 0.95 m and 1.65 m using a combination of hand auger and push tube drilling techniques. Samples were collected from near surface and at regular depth intervals, depending on signs of potential contamination to the depth as shown on the logs in Appendix D. Soil samples collected for asbestos analysis were placed into a zip-lock plastic bag supplied by the laboratory and sealed. Given the sampling method employed (drilling/hand auguring), collection of a 500 mL or 10L samples for sieving / spreading on plastic was not possible. Hence visual observations for ACM during the hand auguring and laboratory analysis for presence/absence in soil samples collected was the methodology to screen for asbestos. A list of samples analysed is provided in the Result Tables presented in Appendix E. Soil samples were field screened for volatile organic compounds (VOCs) using a photo-ionisation detector (PID) with 10.6eV lamp by placing a small quantity of soil from the depth interval into a clean zip-lock plastic bag and sealed. The soil material was disturbed within the

	bag. The nib of the PID was used to pierce the bag and the highest soil headspace reading was recorded on the field log. PID results are presented on the borehole logs presented in Appendix D. Boreholes were backfilled in reverse order using returns and compacted.
Soil Logging	Soil samples were logged by a suitably qualified and experienced Coffey environmental scientist in accordance with Coffey's relevant Standard Operating Practice (SOP) and field description of soils, in Schedule B2 of the amended ASC NEPM. Presence or absence of anthropogenic material and potential indicators of contamination (i.e., odours, staining and/or ACM) was recorded on the logs presented in Appendix D.
Collection of duplicate samples	To measure the accuracy and precision of the data generated by the field and laboratory procedures for this assessment, Coffey collected and analysed QC samples in accordance with the DQI's set forth in Appendix G. Duplicate samples were collected for QC purposes by dividing soil exposed at the sampling location / depth and placing into two laboratory jars. These soils were not homogenised prior to splitting to reduce potential loss of volatile compounds.
Decontamination Procedure	Disposable nitrile gloves were utilised and were replaced for each new sample during the field works. Non-disposable sampling equipment underwent decontamination as required including: • Washing of non-disposable equipment, such as the hand auger and IP, with phosphate-free detergent (Decon 90). • Rinsing of equipment with de-ionised water.
Sample Handling and Transportation	Sample collection, storage and transport were in general accordance with Coffey's SOP. Soil and groundwater samples were placed into laboratory prepared and supplied glass jars and bottles, fitted with Teflon lined seals to limit possible volatile loss. Sample jars were filled to minimise headspace. Separate samples for asbestos analysis were collected and placed in zip lock bags. The samples were placed into ice chilled coolers and dispatched to laboratories for analysis under chain of custody (COC) control. COC's are included with the laboratory certificates in Appendix H.
Well Gauging	Monitoring wells were gauged using an oil/water interface probe (IP). The IP was decontaminated between each measurement.
Groundwater Sampling Method	Groundwater samples were collected using hydrasleeves at groundwater monitoring well locations BH01, BH02 and BH03. Hydrasleeves were installed at an appropriate depth based on gauging results and the well construction details.
Laboratory Analysis	Soil samples were submitted for laboratory analysis at a rate of at least two per borehole for heavy metals, Total Recoverable Hydrocarbons / Total Petroleum Hydrocarbons (TRH / TPH), Polycyclic Aromatic Hydrocarbons (PAH), Benzene, Toluene, Ethyl Benzene, Xylene and Naphthalene (BTEXN), Volatile Organic Compounds (VOCs) and selected Semi-volatile Organic Compounds (SVOCs), chlorinated hydrocarbons, Monocyclic Aromatic Hydrocarbons (MAHs) and asbestos (presence/absence). Groundwater samples were analysed for heavy metals, TRH / TPH, BTEXN, MAHs, chlorinated hydrocarbons, SVOCs, and VOCs. The primary and secondary laboratories for soil and groundwater samples were ALS and Eurofins, respectively.
Waste Disposal	No waste was generated in completing the assessment. Boreholes were backfilled in reverse order and compacted.

5. ASSESSMENT CRITERIA

5.1 SITE SUITABILITY

Criteria were adopted for this assessment in accordance with industry guidance and legislative requirements, based on the proposed development which comprise a health services facility including a five level basement and the Potential Receptors identified:

- Site Users – Worker and Visitor (Current and Future Use);
- Future Construction and Maintenance Workers; and
- Neighbouring Site Users.

Ecological Investigation Levels (EILs) and Ecological Screening Levels (ESL) have not been adopted as it is assumed the basement will cover the entire footprint of the site, with no deep soil zones.

The assessment criteria are summarised in Table 9. Some analytes do not have an applicable criterion based on Table 9. In this case, the laboratory limit of reporting was used as the screening criteria.

Table 9: Site Assessment Criteria

Criteria	Source	Criteria relevant to	Applicable pathway
Soil			
Management Limits	ASC NEPM 2013	Commercial / Industrial land use Fine soils	Direct contact (dermal contact and incidental ingestion and inhalation of soil/dust particles), and construction workers / intrusive maintenance workers.
Health Screening Levels (HSLs)	ASC NEPM 2013	Vapour intrusion / indoor air inhalation for a Commercial . Industrial land use (HSL-D) Fine soil type	Intrusion and inhalation of soil vapours in indoor setting.
	CRCCARE 2011	Intrusive maintenance worker (during construction) (HSL-D)	Direct contact (dermal contact and incidental ingestion and inhalation of soil/dust particles) for intrusive maintenance workers.
Health Investigation Levels	ASC NEPM 2013	Commercial / Industrial (HIL D) Fine soil type and all depths	Direct contact (dermal contact and incidental ingestion and inhalation of soil/dust particles) and construction workers / intrusive maintenance workers.
Groundwater			
HSLs & GILs	ASC NEPM 2013	HSLs are not applicable where groundwater is in direct contact with basements. GILs for Marine Waters	Intrusion and inhalation of vapours in indoor setting.
DGVs	ANZG (2025)	Marine water DGVs for 95% species protection	Groundwater and surface water would be expected to ultimately reach / discharge into Botany Bay, a marine ecosystem.

5.2 ASBESTOS

As samples were collected via push tube, which is not conducive to collecting large sample volumes. The adopted soil assessment criteria for asbestos was presence/absence in soil samples and visual observations for ACM during hand auguring.

5.3 PRELIMINARY IN SITU WASTE CLASSIFICATION

5.3.1 Fill

The preliminary in situ waste classification was completed in general accordance with the NSW EPA (2014) 'Waste Classification Guidelines'.

5.3.2 Natural Soils

The Protection of the Environment Operations Act 1997 defines virgin excavated natural material (VENM) as:

'natural material (such as clay, gravel, sand, soil or rock fines):

(a) that has been excavated or quarried from areas that are not contaminated with manufactured chemicals, or with process residues, as a result of industrial, commercial, mining or agricultural activities, and

(b) that does not contain any sulfidic ores or soils or any other waste.

and includes excavated natural material that meets such criteria for virgin excavated natural material as may be approved for the time being pursuant to an EPA Gazettal notice.'

To facilitate assessment of natural soil as VENM, concentrations of metals for natural soil samples were compared with the following predicted ambient background concentrations (ABC) as a guide, adopted from Table 16 in Schedule B5b of the amended ASC National Environment Protection Council (2013); National Environment Protection (Assessment of Site Contamination) Measure, 1999 (the 'ASC NEPM'):

- Zinc: 62 mg/kg
- Arsenic: 18 mg/kg
- Copper: 40 mg/kg
- Lead: 29 mg/kg
- Nickel: 56 mg/kg
- Chromium: 165 mg/kg.

Concentrations of organic compounds (TPH, BTEX and PAH) and asbestos should be less than the standard limit of reporting (LOR) for natural spoil to be considered VENM.

6. QUALITY ASSURANCE / QUALITY CONTROL

A data validation assessment was undertaken to evaluate whether the laboratory data generated met appropriate accuracy, precision, comparability, representativeness, and completeness criteria and whether the data is suitable assessing the site contamination conditions. A standalone Data Validation Assessment is presented in Appendix G2.

In general, the comparison of primary and duplicate / triplicate samples showed good reproducibility with relative percent difference (RPD) values mostly within an acceptable limit.

Some variance was observed in the analysis of fill samples which can be attributed to the heterogeneous nature of the fill. Overall, it is considered the variability did not compromise of this investigation.

The results of the Data Validation Assessment conclude that the data is directly usable for the purposes of this investigation.

7. RESULTS

7.1 GROUND CONDITIONS

Logs are provided in Appendix D.

7.1.1 BH101 to BH110

The ground conditions encountered in BH101 to BH110 generally comprised:

- Asphalt at surface.
- Fill: Pale brown, grey and dark grey Sandy Clay, and Gravelly Sand to depths of between 0.45 m and 1.2 m with trace inclusions of brick, tile, terracotta, PVC, glass, metal, wire, and plastic fragments. Charcoal was noted in the fill at BH108 at depths of between 0.4 m and 0.8 m.
- Potential asbestos-containing materials (ACM) were not observed in the fill whilst drilling.
- Concrete was encountered:
  - BH102 between depths of 0.4 m and 0.5 m; and
  - BH108 between depths of 0.25 m and 0.4 m.
- Natural soils: comprised pale brown, grey and dark grey Sandy Clay / Silty Clay to depths of between 1.0 m and 1.65 m.
- Sandstone: pale brown weathered sandstone was encountered at most locations.
- Most locations were terminated upon refusal on sandstone, with the following exceptions:
  - BH106 refusal at 1.2 m in fill;
  - BH104 refusal at 1.65 m in natural sandy clay;
  - BH105 refusal at 1.5 m in natural sandy clay; and
  - BH108 refusal at 1.0 m in natural sandy clay.
- Groundwater was not encountered at any of the locations whilst drilling.

7.1.2 BH01 to BH03

The GIR (Coffey, 2025b) scope which comprised the drilling of BH01 to BH03 followed by the installation of groundwater monitoring wells between 28 and 30 April 2025, reported:

- The encountered subsurface conditions were consistent with the published and anticipated geology.
- Asphalt and then Fill was encountered from the surface at each borehole location and generally comprised gravelly sand and clayey sand, with a thickness ranging between 0.5 m and 1.3 m.
- A thin layer of residual soil was encountered in BH03 from 1.5 m to 2.1 m depth, described as Sandy Clay of low to medium plasticity, pale brown and orange mottled pale grey.
- Sandstone Bedrock:
  - A thin layer of extremely weathered bedrock was encountered in all boreholes from 0.6 m to 2.1 m depth. The material generally consisted of medium to coarse grained Sand and Clayey Sand, exhibiting a dense to very dense consistency.
  - Hawksbury Sandstone was encountered in all three boreholes at depths ranging from 1.6 m to 2.9 m. The Hawksbury Sandstone comprised typically pale grey medium to coarse grained sandstone and continued to termination depths of between 23.1 and 23.2 m.

- Piezometer Installation Logs indicate groundwater monitoring wells were installed to depths of between 22.08 m and 22.22 m, with screens installed within the sandstone between approximately 16 m and 22 m.
- Groundwater was not encountered at any of the locations whilst drilling, although, groundwater depth could not be determined during drilling due to the use of the wash boring technique.
- Groundwater was later encountered on 14 May 2025 as follows:
  - BH01 At approximately 16.5 m;
  - BH02 At Approximately 3.8 m; and
  - BH03 At approximately 5 m.

Overall, the ground conditions encountered in BH01 to BH03 were considered to be fairly consistent with those reported in BH101 to BH110.

7.2 PID RESULTS

PID results for soil samples were less than 2 ppm which indicated a low to negligible potential for volatile contaminants to be present in the soil. These screening results were consistent with laboratory results for volatile organic compounds.

PID was calibrated by the hire company prior to use in the field. The calibration certificate is included in Appendix F.

7.3 AESTHETIC CONSIDERATIONS AND FOREIGN MATERIALS

As indicated on the logs, significant unacceptable inert foreign material, odours or staining were not observed in the boreholes. Trace amounts of brick, tile, terracotta, PVC, glass, metal, wire, plastic and charcoal were noted in the fill. Given trace amounts, it was assessed that the soil encountered during this investigation is unlikely to present adverse aesthetic issues considered to be relevant for the proposed development.

7.4 GROUNDWATER

Calibration certificates for the monitoring equipment used is presented in Appendix F.

7.4.1 Occurrence and Elevation

A summary of the groundwater standing water levels (SWL) measured on 11 August 2025 are summarised in Tables D1 and D2 in Appendix D and ranged between about 5 m and 6.4 m.

The groundwater wells were developed by removing approximately 3 well volumes with a disposable bailer. Field notes are presented in Appendix D.

Locations are shown in Figure 3 in Appendix B. The inferred groundwater flow direction is toward the north-east.

In addition, the results of this investigation suggest the following:

- The water bearing unit is the Hawkesbury Sandstone which extends to within about 2.3 m of the surface.
- Based on there being no confining layer, and our significant experience with Hawkesbury Sandstone, the groundwater is considered to be is unconfined.

It is also acknowledged that the groundwater monitoring wells were designed and installed primarily for geotechnical investigation purposes. The secondary purpose was to provide an initial screen for groundwater contamination purposes. The wells were generally screened between 16 m and 22m below surface level, indicating that the SWL measured between 5 m and 6.4 m are likely a representation of the groundwater pressure head, rather than the actual standing water level.

7.4.2 Water Quality Parameters

Groundwater samples were collected on 11 August 2025.

Field water quality parameters measured during groundwater sampling are summarised Table D2 in Appendix D.

The groundwater sample collected from BH02 was observed to be clear. Samples collected from BH01 and BH03 were observed to be slightly cloudy to cloudy.

A slight sulfide odour was noted in the groundwater sample collected from BH01. No odour was observed in the groundwater samples collected from BH02 and BH03.

No sheen or LNAPL was observed in the groundwater samples collected.

Water quality parameters indicated that the following for the groundwater sampled:

- Fairly neutral (pH ranged between 5.9 and 6.2 pH units).
- Dissolved oxygen ranged between 0.7 mg/L and 3.4 mg/L.
- Electrical conductivity ranged between 608uS/cm and 1097uS/cm.
- Adjusted redox[2] ranged between 93mV and 180mV.

7.5 ANALYTICAL RESULTS

7.5.1 Soil – Site Suitability

The laboratory results are presented in Table E1 in Appendix E and were within the site assessment criteria.

Asbestos was not detected in the samples tested, though it is noted that boreholes are not conducive to the identification of ACM. Test pits are preferred for the identification of ACM.

BTEX and VOC were not detected above the LOR in the samples tested.

Chlorinated hydrocarbons, VOC and s VOC were not detected above the LOR in the samples tested.

TRH and PAH were detected above the LOR in most of the samples tested, though at low levels, within the assessment criteria.

Overall results suggest that the site is suitable for the proposed development, though sampling was unable to be completed in southern portion of the site as it was occupied by a building and was inaccessible for sampling. This southern portion requires assessment following removal of the building.

It is also noted that the results of the GPR scan indicate that there is potential for a UST and related infrastructure to be present in area of the site that could not be scanned.

7.5.2 Soil – Preliminary In Situ Waste Classification

The laboratory results are presented in Table E2 in Appendix E. The fill and natural samples are separated by grey shading in Table E2.

Table 10 presents a Summary of the preliminary in situ waste classification applicable to the fill encountered.

[2] Redox readings adjusted as per manufacturer's recommendations. For a YSI Quatro Pro Plus with 3.5M Ag/AgCl probe, 200mv was added to convert the readings into standard hydrogen electrode (SHE) reference electrode.

Table 10: Summary of Preliminary In Situ Waste Classification - Fill

STEP 1: Is the Waste Special Waste?	No.		
STEP 2: Is the Waste Liquid Waste?	No.		
STEP 3: Is the Waste Pre-classified?	No.		
STEP 4: Does the waste possess hazardous characteristics	No.		
STEP 5: Chemical characterisation of the soil materials	Did the COPCs exceed CT1 or CT2: Several samples reported concentrations of Nickel and Lead above the respective CT1 threshold. Two samples reported concentrations of B(a)P slightly above the respective CT1 threshold.	Yes ☒	No ☐
STEP 5: Chemical characterisation of the soil materials	Was TCLP analysis completed? TCLP analysis was undertaken on one of the samples (BH109/0-0.1) which exceeded the CT1 threshold for Nickel (the highest concentration). TCLP analysis was undertaken on two of the samples (BH103/0.5-0.6 and BH106/0.5-0.6) which exceeded the CT1 threshold for Lead (the two highest concentrations, including the one which exceeded to CT2 threshold). TCLP analysis was not undertaken on the two samples which exceeded the CT1 threshold for B(a)P. Statistical analysis indicated that TCLP was not required due to the following: • Average 0.4 mg/Kg • Standard Deviation 0.25 mg/Kg • 95% UCL 0.5 mg/Kg All three are within CT1 (0.8 mg/Kg).	Yes ☒	No ☐
	Were the concentrations below the SCC1 and TCLP1 thresholds?	Yes ☒	No ☐
	Were the concentrations below the SCC2 and TCLP2 thresholds?	Yes ☒	No ☐
	Is this assessment supported by statistical assessment? See above comments regarding B(a)P.	Yes ☒	No ☐
STEP 6: Is the waste putrescible or non-putrescible?	Is the waste considered non-putrescible? Putrescible wastes were not observed in the soil encountered at the test locations.	Yes ☒	No ☐
Preliminary In Situ Waste Classification Conclusion	Based on the laboratory results and field observations, it is assessed that the fill encountered at the test locations shown in Figure 3 in Appendix B is preliminary classified as General Solid Waste (Non-Putrescible).		

7.5.3 Natural Soil

The laboratory results are presented in Table E2 in Appendix E. The fill and natural samples are separated by grey shading in Table E2.

Results were within the ABC. The natural soils encountered at the test locations shown in Figure 3 in Appendix B are considered to be preliminary classified as VENM.

7.5.4 Groundwater

The laboratory results are summarised in Table E3 in Appendix E. and were within the site assessment criteria with the exception of those presented in Table 11.

Table 11: Results which Exceed Assessment Criteria in Groundwater

Analyte (filtered)	Criteria (mg/L)	Sample	Result (mg/L)
Copper	0.0013 ANZG Marine Water Toxicant DGVs level of species protection (LOSP) 95% (2025)	BH01 DUP1 TRIP1	0.033 0.027 0.002
		BH02	0.025
		BH03	0.058
Nickel	0.007 ANZG Marine Water Toxicant DGVs level of species protection (LOSP) 95% (2025)	BH01 DUP1 TRIP1	0.041 0.025 0.025
		BH02	0.014
		BH03	0.017
Lead	0.0044 ANZG Marine Water Toxicant DGVs level of species protection (LOSP) 95% (2025)	BH01 DUP1	0.010 0.008
		BH03	0.018
Zinc	0.008 ANZG Marine Water Toxicant DGVs LOSP 95% (2025)	BH01 DUP1 TRIP1	0.139 0.105 0.096
		BH02	0.069
		BH03	0.249

The following were detected at BH01 which is located within the north-west corner of the site and upgradient which would indicate that the following were not sourced from the site:

- Toluene was detected at very low concentration in BH01.
- Chloroform and carbon disulfide were detected at very low concentration in TRIP1 / Replicate of BH01.
- Formaldehyde was detected at low concentrations in all three locations, with the highest concentration (about 5 mg/L) detected at BH01 (upgradient and likely not sourced from the site).

It is noted that the metals detected at all locations are likely indicative of regional aquifer background concentrations, and that the toluene was detected at very low concentration (within the assessment criteria) in BH01 (upgradient and likely not sourced from the site).

7.6 SOURCE-PATHWAY-RECEPTOR RELATIONSHIPS

The following paragraphs discuss the plausible pollutant linkages between the contamination source and receptors identified in relation to the site.

Soil:

Results suggest that the soil sampled is not significantly contaminated, though the southern portion of the site was not investigated as it was occupied by a building and was inaccessible for sampling.

Groundwater:

- Copper, nickel, lead and zinc exceeded the 95% LOSP in the groundwater sampled.
- Toluene was detected at very low concentration (within the assessment criteria) in BH01(upgradient and likely not sourced from the site).
- Chloroform and carbon disulfide were detected at very low concentration in TRIP1 / Replicate of BH01(upgradient and likely not sourced from the site).
- Formaldehyde was detected at low concentrations in all three locations, with the highest concentration (about 5 mg/L) detected at BH01 (upgradient and likely not sourced from the site).

Potential groundwater seepage into the proposed basement presents a potential exposure pathway, though, it is anticipated seepage into the proposed basement would be managed via implementation of a dewatering management plan. Reference should be made to the geotechnical reports.

Formaldehyde may present a potential dermal (contact) and/or vapour risk to workers during construction of the basement, regardless of the implementation of a dewatering management plan. Groundwater impacted with formaldehyde seeping into the basement post construction could pose a dermal (contact) and/or vapour risks to uses post construction. Chloroform and carbon disulphide if present in groundwater may also represent dermal (contact) and/or vapour risks. Further assessment regarding the potential risk to human health during the construction and post construction phases from formaldehyde, and potentially chloroform and carbon disulphide, is required. This assessment is beyond the scope of this report.

The CSM indicates a potential complete pathway between groundwater and the identified environmental receptors (aquatic receptors on and off-site), though given that the receiving waters (Botany Bay) are considered to be relatively impacted waterways, it is considered that the metals and toluene in groundwater do not warrant further significant investigation or remediation.

8. CONCLUSION AND RECOMMENDATIONS

In summary the following key conclusions were drawn from the findings of this investigation:

- The NSW SafeWork Schedule 11 Hazardous Chemicals on Premises records search did not identify any license records relating to the storage of hazardous chemicals in the site.
- The GPR scan indicated UST was not detected with GPR sweeps, though the locator noted that there is a possibility that a UST may be present beneath areas where parked cars restricted the survey.
- Ground conditions encountered within the site comprised asphalt at the surface underlain by fill soils and sandy clay / silty clay natural soils and sandstone bedrock. Inclusions of brick, tile, terracotta, PVC, glass, metal, wire, plastic and charcoal fragments were observed in the fill exposed during the investigation.
- Potential ACM was not observed in the fill during drilling, though it should be noted that the drilling technique is not favourable to observing asbestos. Test pits are more favourable for observing asbestos in fill.
- In general, the analysis of soil samples collected from the investigation locations did not record contamination at concentrations that poses potentially unacceptable risks to human or environmental receptors for intended for the proposed development (health services facility).
- Elevated concentrations of toluene and metals were detected in groundwater. It is noted that the metals are likely indicative of regional aquifer background concentrations, and the toluene was detected at very low concentration (within the assessment criteria) in BH01.
- Given groundwater was encountered at depths ranging between 5 m and 6.4 m, although these are likely a representation of the groundwater pressure head, rather than the actual standing water level. A dewatering management plan should be considered depending on the construction method applied. Reference should be made to the geotechnical reports.
- Copper, nickel, lead and zinc exceeded the 95% LOSP in the groundwater sampled. The CSM presented in Section 3 indicates that an exposure pathway may exist between the groundwater and the identified human receptors via groundwater seepage into the proposed basement, though, it is anticipated seepage into the proposed basement would be managed via implementation of a dewatering management plan. Reference should be made to the geotechnical reports.
- Formaldehyde may present a potential dermal (contact) and/or vapour risk to workers during construction of the basement, regardless of the implementation of a dewatering management plan. Groundwater impacted with formaldehyde seeping into the basement post construction could pose a dermal (contact) and/or vapour risks to uses post construction. Chloroform and carbon disulphide if present in groundwater may also represent dermal (contact) and/or vapour risks. Further assessment regarding the potential risk to human health during the construction and post construction phases from formaldehyde, and potentially chloroform and carbon disulphide, is required. This assessment is beyond the scope of this report.
- The CSM indicates a potentially complete pathway via groundwater to potential environmental receptors (aquatic receptors on and off-site), though given that the receiving waters (Botany Bay) are considered to be relatively impacted waterways, it is considered that the metals in groundwater do not warrant further investigation or remediation.
- Preliminary In Situ Waste Classification indicated natural soils are preliminarily classified as VENM and fill is preliminary classified as General Solid Waste (Non-Putrescible).

Based on the findings, the following is recommended:

- The southern portion of the site which is currently occupied by a building was not investigated as it was inaccessible for sampling. This portion of the site will require investigation. The following recommendations are made:
  - A hazardous building material survey should be completed prior to demolition.
  - Following demolition of the building contamination investigations should be undertaken within the area not sampled during this study. These investigations should give consideration to potential for sewer lines to retain residual contaminants from any wastes disposed to sewer.

- Given the past industrial uses of the site and the potential for contamination residues to remain in any subsurface structures, the removal of the sewer line and other underground infrastructure, should be appropriately managed so as not to cross contaminate the ground during removal.
- An Unexpected Finds Protocol should be developed to manage potential contamination conditions inconsistent with those encountered in this study during the proposed excavation works.
- A human health risk assessment should be completed by a Human Health Risk Assessor to further assess the potential risk to human health during the construction and post construction phases from formaldehyde, and potentially chloroform and carbon disulphide, is required. This assessment is beyond the scope of this report. It is recommended that additional rounds of groundwater sampling and analysis are completed as part of this risk assessment

Overall, it is recommended that a Remedial Action Plan (RAP) is prepared to cover the above mentioned additional works, and management of the removal of existing sub-surface services / infrastructure and the unexpected finds. The RAP should be implemented during demolition, excavation and construction.

It is concluded that the site can be made suitable for the proposed use as a health facility subject to the outcomes of the recommended additional works and implementation of all associated remediation / management measures that may be recommended from the additional works.

This report should be read in conjunction with the Important Information about Your Tetra Tech Coffey Environmental Report presented in Appendix A.

9. REFERENCES

Coffey (2025) St George Private Hospital, Groundwater Impact Assessment (report reference: 754-SYDGE381816AB, dated 20 June 2025)

Coffey (2025) St George Private Hospital, Geotechnical Investigation Report (report reference: 754-SYDGE381816AA, dated 27 June 2025)

Coffey (2025), Preliminary Site Investigation – Akalan Projects Pty Ltd, 119 Princes Highway, Kogarah (report reference: 754-SYDGE381816-AC-Rev2, dated 5 September 2025

CRC Care (2011) Technical Report No. 10, Health screening levels for petroleum hydrocarbons in soil and groundwater (CRC Care, 2011)

NEPC (2013); National Environmental Protection (Assessment of Site Contamination) Measure 1999 (the 'ASC NEPM') (NEPC, 2013)

NSW EPA (2014) 'Waste Classification Guidelines'.

NSW EPA (2020); Contaminated Land Guidelines – Consultants Reporting on Contaminated Land

NSW EPA (2022); Contaminated Land Guidelines - Sampling Design Part 1 – Application

Contaminated Land Management (CLM) Act, 1997 (CLM Act 1997).

Protection of the Environment Operations (POEO) Act 1997 (POEO Act 1997).

APPENDIX A: IMPORTANT INFORMATION ABOUT YOUR TETRA TECH COFFEY ENVIRONMENTAL REPORT

IMPORTANT INFORMATION ABOUT YOUR TETRA TECH COFFEY ENVIRONMENTAL REPORT

Introduction

This report has been prepared by Tetra Tech Coffey for you, as Tetra Tech Coffey's client, in accordance with our agreed purpose, scope, schedule and budget.

The report has been prepared using accepted procedures and practices of the consulting profession at the time it was prepared, and the opinions, recommendations and conclusions set out in the report are made in accordance with generally accepted principles and practices of that profession.

The report is based on information gained from environmental conditions (including assessment of some or all of soil, groundwater, vapour and surface water) and supplemented by reported data of the local area and professional experience. Assessment has been scoped with consideration to industry standards, regulations, guidelines and your specific requirements, including budget and timing. The characterisation of site conditions is an interpretation of information collected during assessment, in accordance with industry practice.

This interpretation is not a complete description of all material on or in the vicinity of the site, due to the inherent variation in spatial and temporal patterns of contaminant presence and impact in the natural environment. Tetra Tech Coffey may have also relied on data and other information provided by you and other qualified individuals in preparing this report. Tetra Tech Coffey has not verified the accuracy or completeness of such data or information except as otherwise stated in the report. For these reasons the report must be regarded as interpretative, in accordance with industry standards and practice, rather than being a definitive record.

Your report has been written for a specific purpose

Your report has been developed for a specific purpose as agreed by us and applies only to the site or area investigated. Unless otherwise stated in the report, this report cannot be applied to an adjacent site or area, nor can it be used when the nature of the specific purpose changes from that which we agreed.

For each purpose, a tailored approach to the assessment of potential soil and groundwater contamination is required. In most cases, a key objective is to identify, and if possible quantify, risks that both recognised and potential contamination pose in the context of the agreed purpose. Such risks may be financial (for example, clean up costs or constraints on site use) and/or physical (for example, potential health risks to users of the site or the general public).

Limitations of the Report

The work was conducted, and the report has been prepared, in response to an agreed purpose and scope, within time and budgetary constraints, and in reliance on certain data and information made available to Tetra Tech Coffey.

The analyses, evaluations, opinions and conclusions presented in this report are based on that purpose and scope, requirements, data or information, and they could change if such requirements or data are inaccurate or incomplete.

This report is valid as of the date of preparation. The condition of the site (including subsurface conditions) and extent or nature of contamination or other environmental hazards can change over time, as a result of either natural processes or human influence. Tetra Tech Coffey should be kept appraised of any such events and should be consulted for further investigations if any changes are noted, particularly during construction activities where excavations often reveal subsurface conditions.

In addition, advancements in professional practice regarding contaminated land and changes in applicable statues and/or guidelines may affect the validity of this report. Consequently, the currency of conclusions and recommendations in this report should be verified if you propose to use this report more than 6 months after its date of issue.

The report does not include the evaluation or assessment of potential geotechnical engineering constraints of the site.

Interpretation of factual data

Environmental site assessments identify actual conditions only at those points where samples are taken and on the date collected. Data derived from indirect field measurements, and sometimes other reports on the site, are interpreted by geologists, engineers or scientists to provide an opinion about overall site conditions, their likely impact with respect to the report purpose and recommended actions.

Variations in soil and groundwater conditions may occur between test or sample locations and actual conditions may differ from those inferred to exist. No environmental assessment program, no matter how comprehensive, can reveal all subsurface details and anomalies. Similarly, no professional, no matter how well qualified, can reveal what is hidden by earth, rock or changed through time.

The actual interface between different materials may be far more gradual or abrupt than assumed based on the facts obtained. Nothing can be done to change the actual site conditions which exist, but steps can be taken to reduce the impact of unexpected conditions.

For this reason, parties involved with land acquisition, management and/or redevelopment should retain the services of a suitably qualified and experienced environmental consultant through the development and use of the site to identify variances, conduct additional tests if required, and recommend solutions to unexpected conditions or other unrecognised features encountered on site. Tetra Tech Coffey would be pleased to assist with any investigation or advice in such circumstances.

Recommendations in this report

This report assumes, in accordance with industry practice, that the site conditions recognised through discrete sampling are representative of actual conditions throughout the investigation area. Recommendations are based on the resulting interpretation.

Should further data be obtained that differs from the data on which the report recommendations are based (such as through excavation or other additional assessment), then the recommendations would need to be reviewed and may need to be revised.

Report for benefit of client

Unless otherwise agreed between us, the report has been prepared for your benefit and no other party. Other parties should not rely upon the report or the accuracy or completeness of any recommendation and should make their own enquiries and obtain independent advice in relation to such matters.

Tetra Tech Coffey assumes no responsibility and will not be liable to any other person or organisation for, or in relation to, any matter dealt with or conclusions expressed in the report, or for any loss or damage suffered by any other person or organisation arising from matters dealt with or conclusions expressed in the report.

To avoid misuse of the information presented in your report, we recommend that Tetra Tech Coffey be consulted before the report is provided to another party who may not be familiar with the background and the purpose of the report. In particular, an environmental disclosure report for a property vendor may not be suitable for satisfying the needs of that property's purchaser. This report should not be applied for any purpose other than that stated in the report.

Interpretation by other professionals

Costly problems can occur when other professionals develop their plans based on misinterpretations of a report. To help avoid misinterpretations, a suitably qualified and experienced environmental consultant should be retained to explain the implications of the report to other professionals referring to the report and then review plans and specifications produced to see how other professionals have incorporated the report findings.

Given Tetra Tech Coffey prepared the report and has familiarity with the site, Tetra Tech Coffey is well placed to provide such assistance. If another party is engaged to interpret the recommendations of the report, there is a risk that the contents of the report may be misinterpreted and Tetra Tech Coffey disowns any responsibility for such misinterpretation.

Data should not be separated from the report

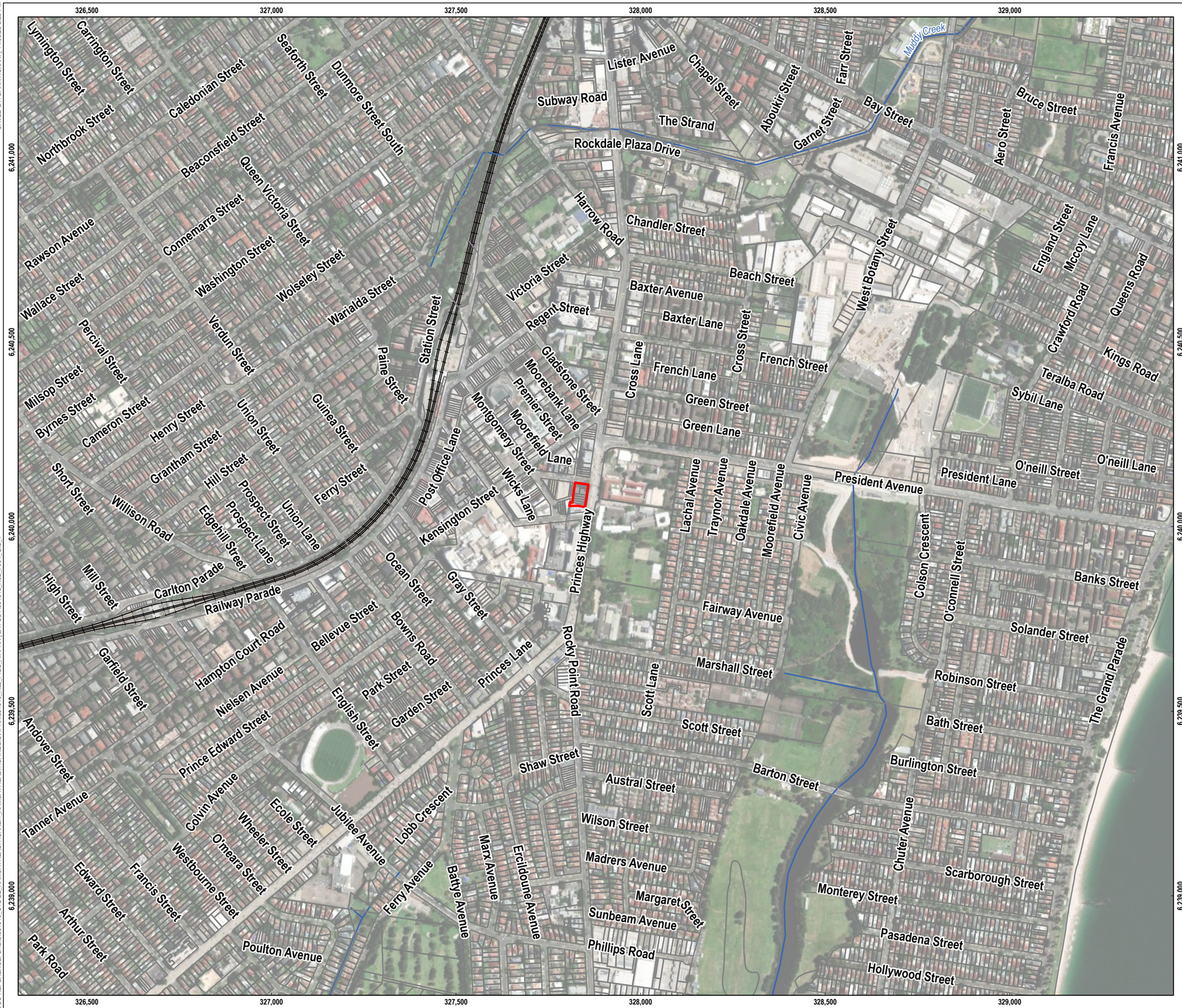
The report as a whole presents the findings of the site assessment and the report should not be copied in part or altered in any way. Logs, figures, laboratory data, drawings, etc. are customarily included in our reports and are developed by scientists or engineers based on their interpretation of field logs, field testing and laboratory evaluation of samples. This information should not under any circumstances be redrawn for inclusion in other documents or separated from the report in any way.

This report should be reproduced in full. No responsibility is accepted for use of any part of this report in any other context or for any other purpose or by third parties.

Responsibility

Environmental reporting relies on interpretation of factual information using professional judgement and opinion and has a level of uncertainty attached to it, which is much less exact than other design disciplines. This has often resulted in claims being lodged against consultants, which are unfounded. As noted earlier, the recommendations and findings set out in this report should only be regarded as interpretive and should not be taken as accurate and complete information about all environmental media at all depths and locations across the site.

APPENDIX B: FIGURES & PROPOSED DEVELOPMENT PLANS



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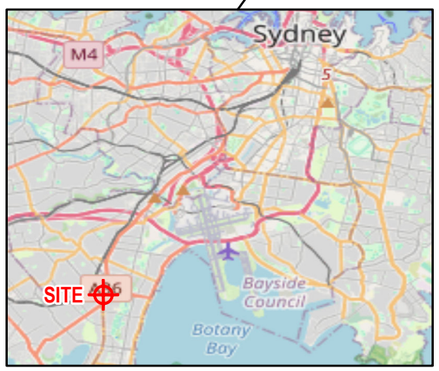
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Ramsay Health Care

LEGEND

- Railway
- Watercourse
- Site boundary
- Lot





SOURCE
Site boundary from Tetra Tech Coffey.
Road, railway, lot and watercourse from NSW Government.
Aerial imagery from ESRI (various capture dates).

N

0 200 400 m

SCALE **1:10,000**
PAGE SIZE: **A3**
PROJECTION: **GDA2020 MGA Zone 56**

RAMSAY HEALTH CARE PTY LTD
C/O AKALAN PROJECTS LTD
ST GEORGE HOSPITAL (RHC) –
DETAILED SITE INVESTIGATION

FIGURE 1 DRAFT

Site location

TETRA TECH COFFEY

DATE: **14.08.25** PROJECT: **754-SYDGE381816** FILE: **381816_R02_F001_GIS**

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Ramsay Health Care

LEGEND

- Site boundary
- Lot

SOURCE
Site boundary from Tetra Tech Coffey.
Road and lot from NSW Government.
Aerial imagery from Nearmap (05/06/2025).

N

0 20 40 m

SCALE **1:1,000**
PAGE SIZE: **A3**
PROJECTION: **GDA2020 MGA Zone 56**

RAMSAY HEALTH CARE PTY LTD
C/O AKALAN PROJECTS LTD
ST GEORGE HOSPITAL (RHC) – DETAILED SITE INVESTIGATION

FIGURE 2 DRAFT

Site layout

TETRA TECH COFFEY

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LEGEND

- Soil bore
- Groundwater monitoring well
- Site boundary
- Lot

SOURCE
Sampling location and site boundary from Tetra Tech Coffey.
Road and lot from NSW Government.
Aerial imagery from Nearmap (05/06/2025).

N

0 10 20 m

SCALE **1:500**
PAGE SIZE: **A3**
PROJECTION: **GDA2020 MGA Zone 56**

RAMSAY HEALTH CARE PTY LTD
C/O AKALAN PROJECTS LTD
ST GEORGE HOSPITAL (RHC) –
DETAILED SITE INVESTIGATION

FIGURE 3

DRAFT

Sampling location

TETRA TECH COFFEY

DATE: **14.08.25** PROJECT: **754-SYDGE381816** FILE: **381816_R02_F003_GIS**

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Ramsay Health Care

LEGEND

- Soil bore
- Groundwater monitoring well
- Groundwater contour
- Inferred groundwater flow direction
- Site boundary
- Lot

SOURCE
Contour, flow direction, sampling location and site boundary from Tetra Tech Coffey.
Road and lot from NSW Government.
Aerial imagery from Nearmap (05/06/2025).

N

0 10 20 m

SCALE **1:500**
PAGE SIZE: **A3**
PROJECTION: **GDA2020 MGA Zone 56**

RAMSAY HEALTH CARE PTY LTD
C/O AKALAN PROJECTS LTD
ST GEORGE HOSPITAL (RHC) –
DETAILED SITE INVESTIGATION

FIGURE 4

Inferred groundwater flow direction

TETRA TECH COFFEY

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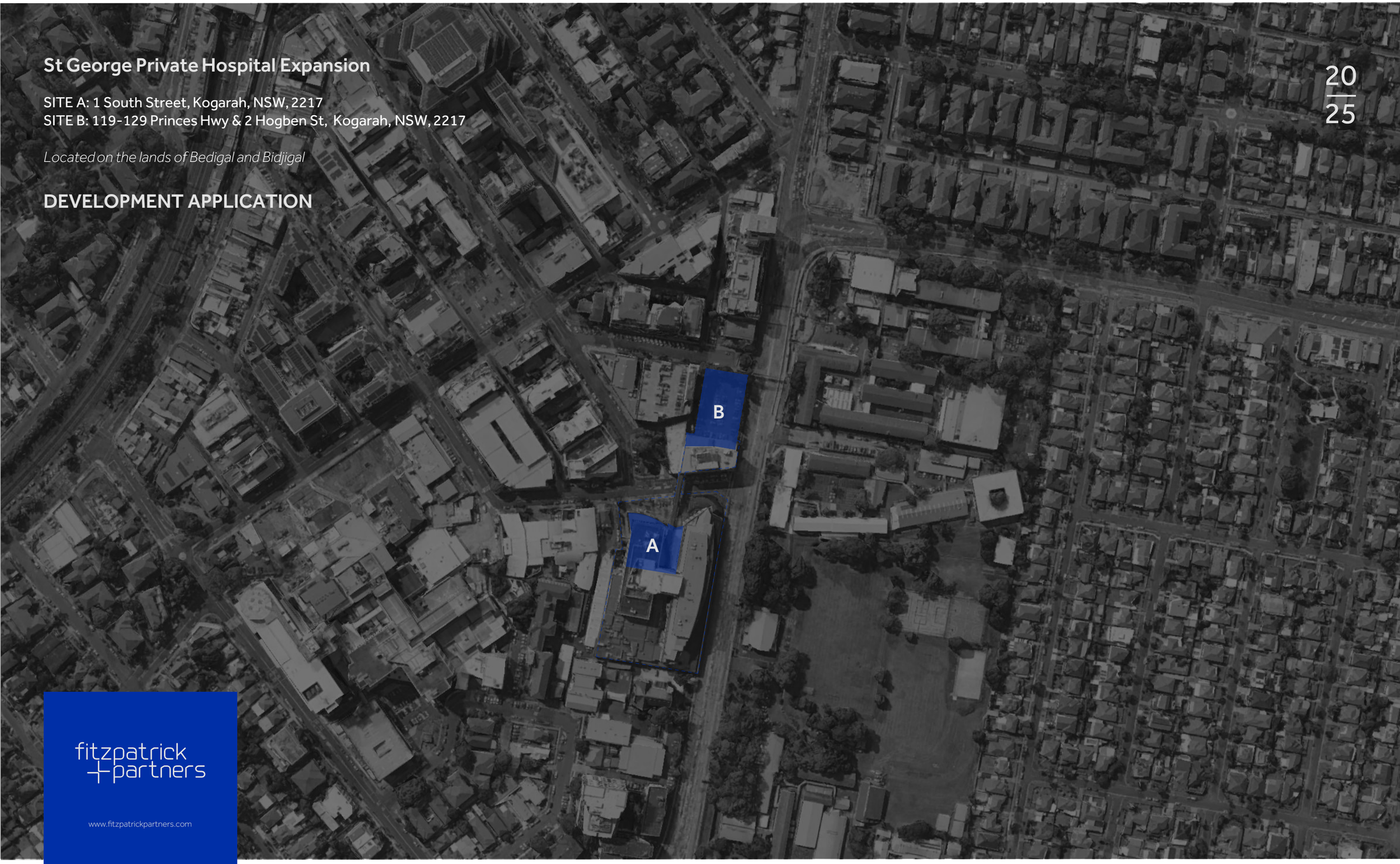
St George Private Hospital Expansion

SITE A: 1 South Street, Kogarah, NSW, 2217
SITE B: 119-129 Princes Hwy & 2 Hogben St, Kogarah, NSW, 2217

Located on the lands of Bedigal and Bidjigal

DEVELOPMENT APPLICATION

20
25



fitzpatrick
+partners

www.fitzpatrickpartners.com

fitzpatrick + partners

Fitzpatrick + Partners acknowledge that we work on the Traditional Lands of the Gadigal people of the Eora Nation.

We pay our respects to Elders past, present and emerging.

Always was, always will be, Aboriginal land.

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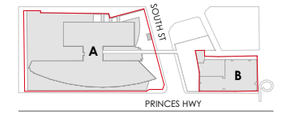
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KEY:



PROJECT
St George Private Hospital Expansion

Site A: 1 South St, Kogarah NSW 2217
Site B: 119-129 Princes Hwy & 2 Hogben St, Kogarah NSW 2217

Located on Bidjigal Country

PHASE DESIGN DEVELOPMENT - SSDA

PROJECT MANAGER

Akalan

DRAWN BY
TEAM

APPROVED BY
JF

PRINT DATE
10/20/2025

PROJECT NORTH

DRAWING
| DEVELOPMENT APPLICATION
LOCATION PLAN (SITES A & B)

PROJECT NUMBER
22505

DRAWING NUMBER
DA - 0002

ISSUE
G



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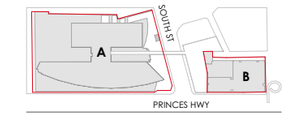
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KEY:



GENERAL LEGEND:

- REFER TO OTHER DRAWINGS OR OUT OF SCOPE
- SITE BOUNDARY LINE
- DEMOLITION SCOPE
- DASHED OUTLINE INDICATES EXTENT OF NEW DDA-COMPLIANT WORKS
- EXISTING WALLS AND STRUCTURE
- NEW WALLS AND STRUCTURE

PROJECT

St George Private Hospital Expansion

Site A: 1 South St, Kogarah NSW 2217
Site B: 119-129 Princes Hwy & 2 Hogben St, Kogarah NSW 2217

Located on Bidjigal Country

PHASE DESIGN DEVELOPMENT - SSDA

PROJECT MANAGER

Akalan

SCALE
1:1000 @A3

20mm ON ORIGINAL

DRAWN BY
TEAM

APPROVED BY
JF

PRINT DATE
10/20/2025

PROJECT NORTH

DRAWING
| DEVELOPMENT APPLICATION
SITE PLAN (SITES A & B)

PROJECT NUMBER
22505

DRAWING NUMBER
DA - 0003

ISSUE
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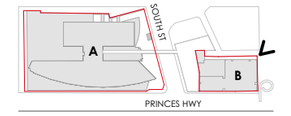
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KEY:



PROJECT

St George Private Hospital Expansion

Site A: 1 South St, Kogarah NSW 2217
Site B: 119-129 Princes Hwy & 2 Hogben St, Kogarah NSW 2217

Located on Bidjigal Country

PHASE DESIGN DEVELOPMENT - SSDA

PROJECT MANAGER

Akalan

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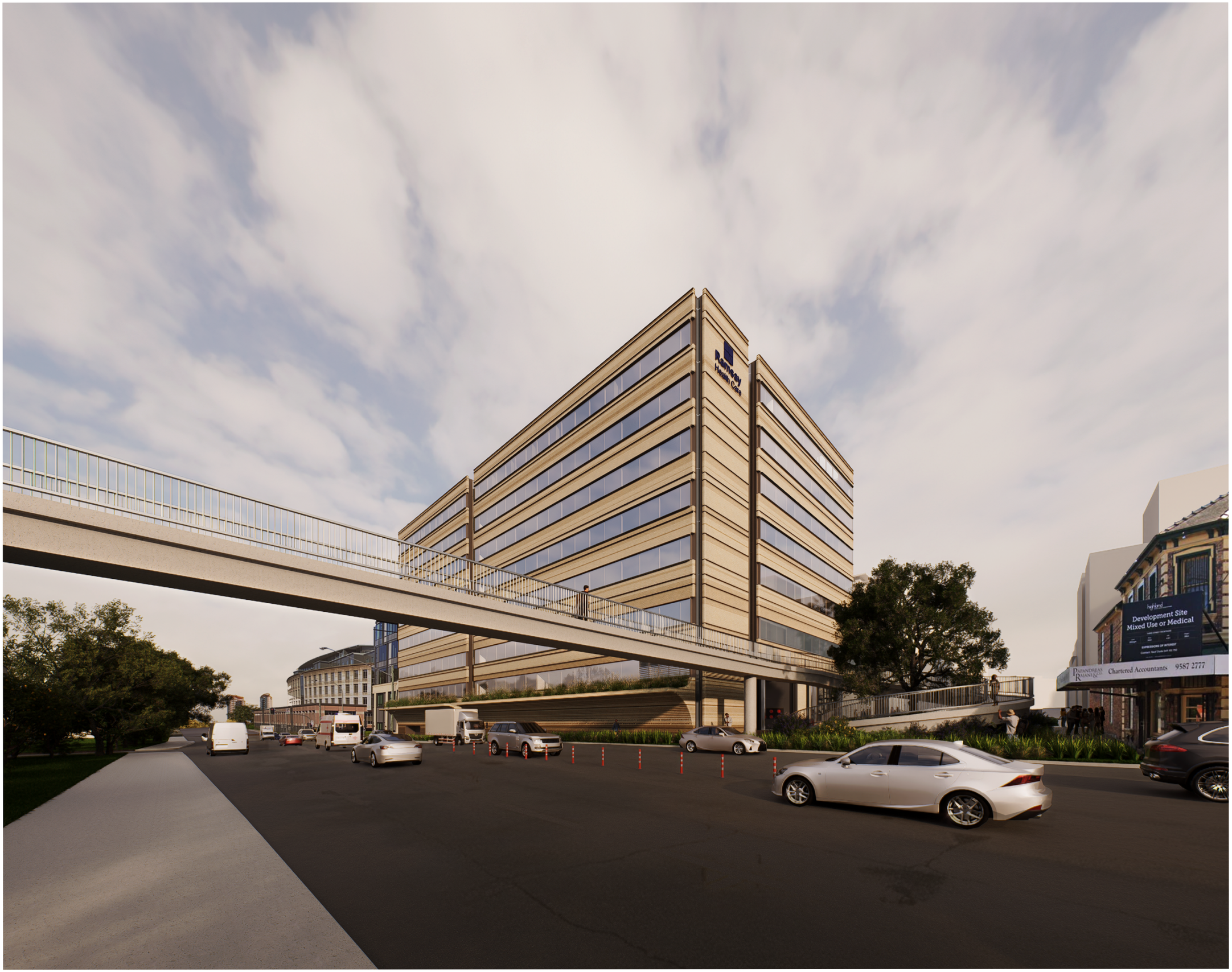
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DRAWING
3D MONTAGE: SITE B - BANK LN
3D MONTAGE - MAIN ENTRY FROM HOGBEN STREET

PROJECT NUMBER
22505

DRAWING NUMBER
DA - 1101

ISSUE
G



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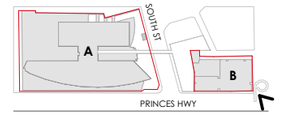
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Located on Bidjigal Country

PHASE DESIGN DEVELOPMENT - SSDA

PROJECT MANAGER

Akalan

DRAWN BY
TEAM

APPROVED BY
JF

PRINT DATE
10/20/2025

DRAWING
3D MONTAGE: SITE B - BANK LN
3D MONTAGE - VIEW SOUTHWEST FROM PRINCES HIGHWAY

PROJECT NUMBER
22505

DRAWING NUMBER
DA - 1102

ISSUE
G



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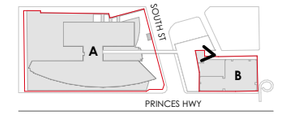
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PHASE DESIGN DEVELOPMENT - SSDA

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TEAM

APPROVED BY
JF

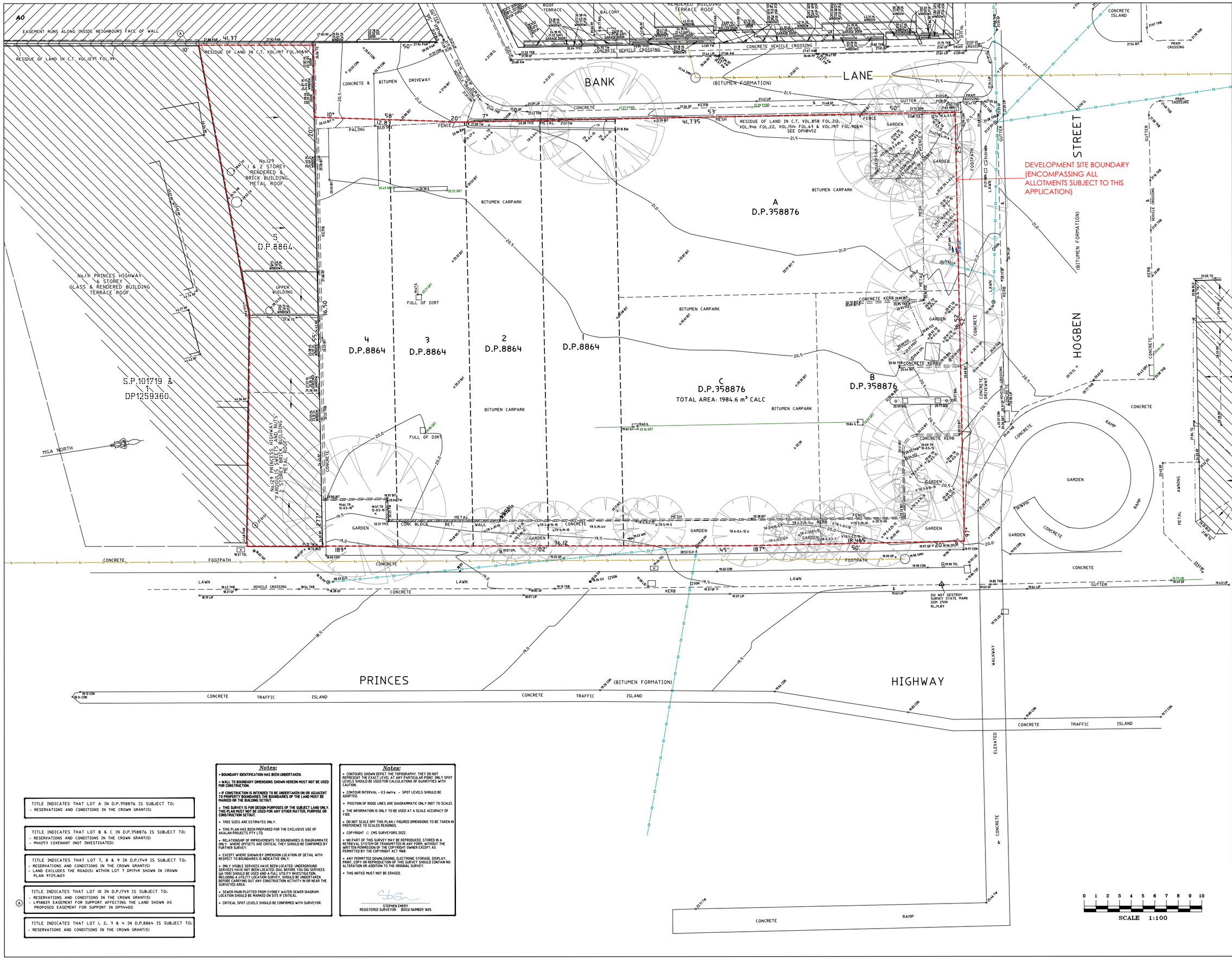
PRINT DATE
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DRAWING
3D MONTAGE: SITE B - BANK LN
3D MONTAGE- VIEW NORTH FROM BANK LANE

PROJECT NUMBER
22505

DRAWING NUMBER
DA - 1103

ISSUE
G



TITLE INDICATES THAT LOT A IN D.P.358876 IS SUBJECT TO:
- RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)

TITLE INDICATES THAT LOT B & C IN D.P.358876 IS SUBJECT TO:
- RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- MN11253 COVENANT (NOT INVESTIGATED)

TITLE INDICATES THAT LOT 7, 8 & 9 IN D.P.1749 IS SUBJECT TO:
- RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- LAND EXCLUDES THE ROAD(S) WITHIN LOT 7 DP1749 SHOWN IN CROWN PLAN 9725.1603

TITLE INDICATES THAT LOT 10 IN D.P.1749 IS SUBJECT TO:
- RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- L958825 EASEMENT FOR SUPPORT AFFECTING THE LAND SHOWN AS PROPOSED EASEMENT FOR SUPPORT IN DP534012

(A) TITLE INDICATES THAT LOT 1, 2, 3 & 4 IN D.P.8864 IS SUBJECT TO:
- RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)

Notes:

- **BOUNDARY IDENTIFICATION HAS BEEN UNDERTAKEN.**
- **WALL TO BOUNDARY DIMENSIONS SHOWN HEREON MUST NOT BE USED FOR CONSTRUCTION.**
- **IF CONSTRUCTION IS INTENDED TO BE UNDERTAKEN ON OR ADJACENT TO PROPERTY BOUNDARIES THE BOUNDARIES OF THE LAND MUST BE MARKED OR THE BUILDING SETOUT.**
- **THIS SURVEY IS FOR DESIGN PURPOSES OF THE SUBJECT LAND ONLY. THIS PLAN MUST NOT BE USED FOR ANY OTHER MATTER, PURPOSE OR CONSTRUCTION SETOUT.**
- TREE SIZES ARE ESTIMATES ONLY.
- THIS PLAN HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF AKALAN PROJECTS PTY LTD.
- RELATIONSHIP OF IMPROVEMENTS TO BOUNDARIES IS DIAGRAMMATIC ONLY. WHERE OFFSETS ARE CRITICAL THEY SHOULD BE CONFIRMED BY FURTHER SURVEY.
- EXCEPT WHERE SHOWN BY DIMENSION LOCATION OF DETAIL WITH RESPECT TO BOUNDARIES IS INDICATIVE ONLY.
- ONLY VISIBLE SERVICES HAVE BEEN LOCATED. UNDERGROUND SERVICES HAVE NOT BEEN LOCATED. DIAL BEFORE YOU DIG SERVICES (ph 1100) SHOULD BE USED AND A FULL UTILITY INVESTIGATION, INCLUDING A UTILITY LOCATION SURVEY, SHOULD BE UNDERTAKEN BEFORE CARRYING OUT ANY CONSTRUCTION ACTIVITY IN OR NEAR THE SURVEYED AREA.
- SEWER MAIN PLOTTED FROM SYDNEY WATER SEWER DIAGRAM. LOCATION SHOULD BE MARKED ON SITE IF CRITICAL.
- CRITICAL SPOT LEVELS SHOULD BE CONFIRMED WITH SURVEYOR.

Notes:

- CONTOURS SHOWN DEPICT THE TOPOGRAPHY. THEY DO NOT REPRESENT THE EXACT LEVEL AT ANY PARTICULAR POINT. ONLY SPOT LEVELS SHOULD BE USED FOR CALCULATIONS OF QUANTITIES WITH CAUTION.
- CONTOUR INTERVAL - 0.5 metre. - SPOT LEVELS SHOULD BE ADOPTED.
- POSITION OF RIDGE LINES ARE DIAGRAMMATIC ONLY (NOT TO SCALE).
- THE INFORMATION IS ONLY TO BE USED AT A SCALE ACCURACY OF 1:100.
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STEPHEN EMERY
REGISTERED SURVEYOR BOSSI NUMBER 1605

0 1 2 3 4 5 6 7 8 9 10
SCALE 1:100

NOTES

DEMOLITION SCOPE (NOTE ADDED BY FITZPATRICK + PARTNERS):
ALL EXISTING SURFACE FEATURES LOCATED WITHIN THE DEVELOPMENT SITE BOUNDARY (ENCOMPASSING ALL ALLOTMENTS SHOWN ON THIS SURVEY) ARE TO BE REMOVED AS PART OF THE PROPOSED WORKS.
THIS INCLUDES (BUT IS NOT LIMITED TO) EXISTING TREES, VEGETATION, PAVING, FENCING, AND MINOR SITE STRUCTURES. SUBSURFACE SERVICES AND STRUCTURES ARE TO BE REMOVED UNLESS OTHERWISE NOTED IN ENGINEERING OR SERVICES DOCUMENTATION.

LEGEND:

AW = AWNING
BAL = BALCONY
BIN = RUBISH BIN
BIT = BITUMEN
BW = BOTTOM WALL
BLD = EXTERNAL BUILDING
CL = CENTRELINE
CH = CHIMNEY
COL = COLUMN
COM = COMMUNICATIONS PIT
CON = CONCRETE
DS = DOOR SILL LEVEL
EK = ELECTRICITY KIOSK
ELO = ELECTRICITY LINE OVERHEAD
EPL = ELECTRICITY PILLAR
FCE = FENCE
FL = FLOOR LEVEL
GFL = GARAGE FLOOR LEVEL
GPM = GAS PIPELINE MARKER/INDICATOR
GP = GAS PLAQUE
GRT = GRATE
GF = GUTTER LEVEL
HL = HOOD LEVEL
IL = INVERT LEVEL
LP = LIGHT POLE
LID = MISCELLANEOUS PIT LID
LIN = LINTEL
LIP = KERB LIP
NBN = NBN PT
NS = NATURAL SURFACE
PIODD = INVERT LEVEL PIPE AND DIA
.JOD
PAR = PARAPET
PTH = PATH
PAV = PAVING
PP = POWER POLE
RF = TOP OF ROOF
RR = ROOF RIDGE
SCN = SCREEN
SEAT = SEAT
SIP = SEWER INSPECTION PIT
SMH = SEWER MAN HOLE
SGN = SIGN
SL = SILL LEVEL
STR = STAIRS
SV = STOP VALVE
TEL = TELSTRA
TER = TERRACE
TFCE = TOP OF FENCE
TG = TOP OF GUTTER
TKB = TOP OF KERB
TW = TOP WALL
TL = TRAFFIC LIGHT
TSP = TRAFFIC SIGNAL PIT
TR = TREE
TRL = TREE LINE
UBM = UNDERSIDE BEAM
VA = VALVE
VC = VEHICLE CROSSING
VNT = VENT
WL = WATER LID
WM = WATER METER
E = ELECTRICITY OVERHEAD
S = SEWER UNDERGROUND
TREE SPREAD-DIAMETER-HEIGHT

HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA GDA94
MARKS USED: SSM 25191 AND SSM 25193

VERTICAL DATUM:
DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 25191
R.L. 19.826 (CLASS LB)
SOURCE: S.C.I.M.S. (04/01/22)

i	FIRST ISSUE	17/01/22

CLIENT:
AKALAN PROJECTS PTY LIMITED
84 ALEXANDER STREET,
CROWS NEST NSW 2065

SURVEY PLAN SHOWING DETAIL & LEVELS OVER LOTS PT7, 8, 9 & 10 IN D.P.1749 & LOTS 1, 2, 3 & 4 IN D.P.8864 & LOTS A, B & C IN D.P.358876

ST GEORGE PRIVATE HOSPITAL, SOUTH STREET, KOGORAH

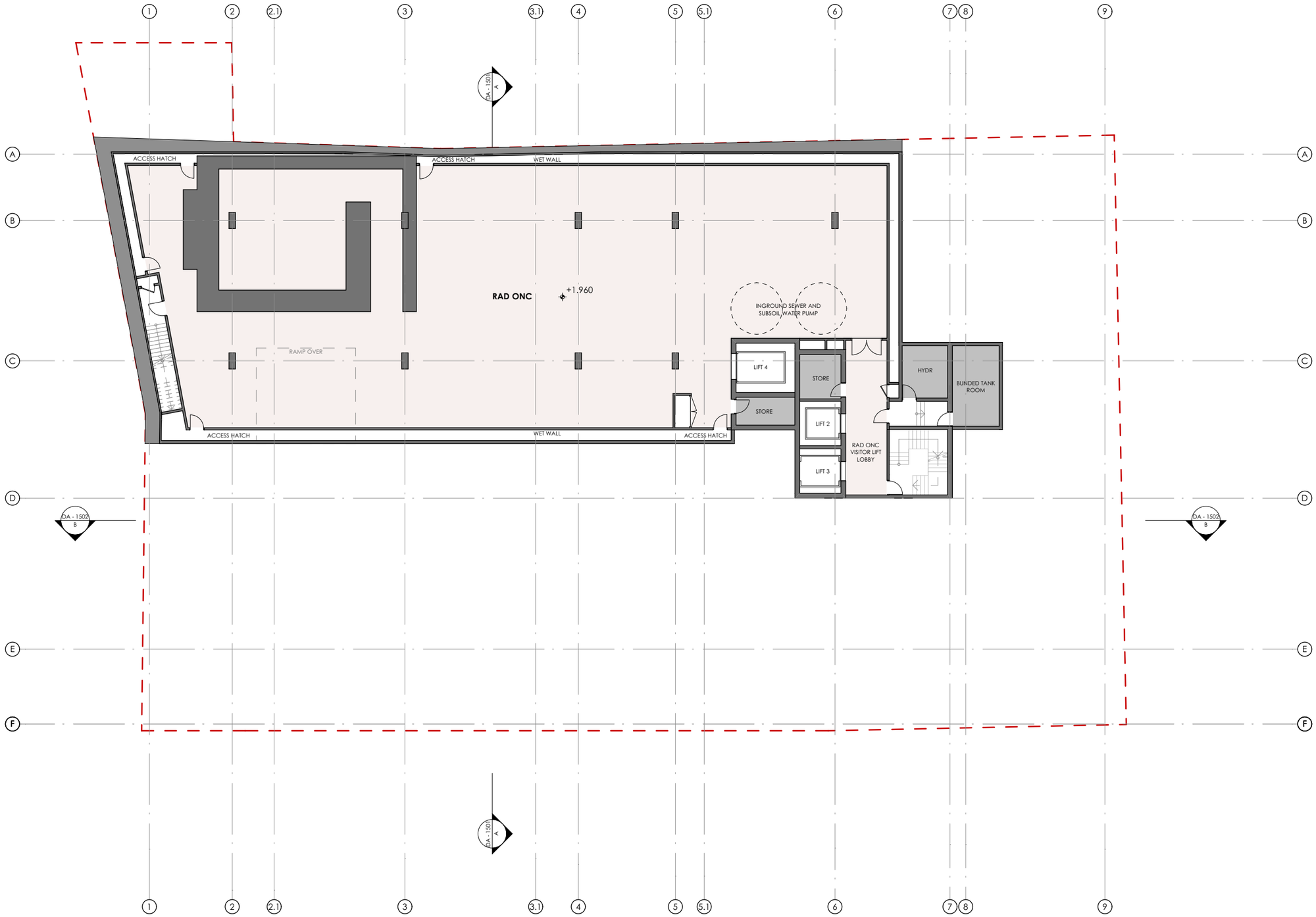
C.M.S. Surveyors Pty Limited
ACN: 096 240 201
PO Box 463 Dee Why NSW 2099
2/99A South Creek Road, Dee Why NSW 2099
Telephone: (02) 9971 4802
Facsimile: (02) 9971 4822
E-mail: info@cmssurveyors.com.au

LGA: GEORGES RIVER | SHEET 2 OF 4

SURVEYED	DRAWN	CHECKED	APPROVED
MB/BS	GP/CJR/BS	MB/BS	DR

SURVEY INSTRUCTION	SCALE	DATE OF SURVEY
170060	100 @ A0	12/01/22

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CAD FILE: 170060detail 1.dwg



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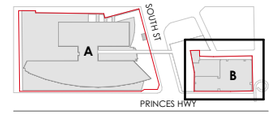
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- DEMOLITION SCOPE
- DASHED OUTLINE INDICATES EXTENT OF NEW DDA-COMPLIANT WORKS
- EXISTING WALLS AND STRUCTURE
- NEW WALLS AND STRUCTURE

PROJECT

St George Private Hospital Expansion

Site A: 1 South St, Kogarah NSW 2217
Site B: 119-129 Princes Hwy & 2 Hogben St, Kogarah NSW 2217

Located on Bidjigal Country

PHASE DESIGN DEVELOPMENT - SSDA

PROJECT MANAGER

Akalan

SCALE 1:250 @A3

DRAWN BY TEAM

20mm ON ORIGINAL

APPROVED BY JF

PRINT DATE 10/20/2025

PROJECT NORTH

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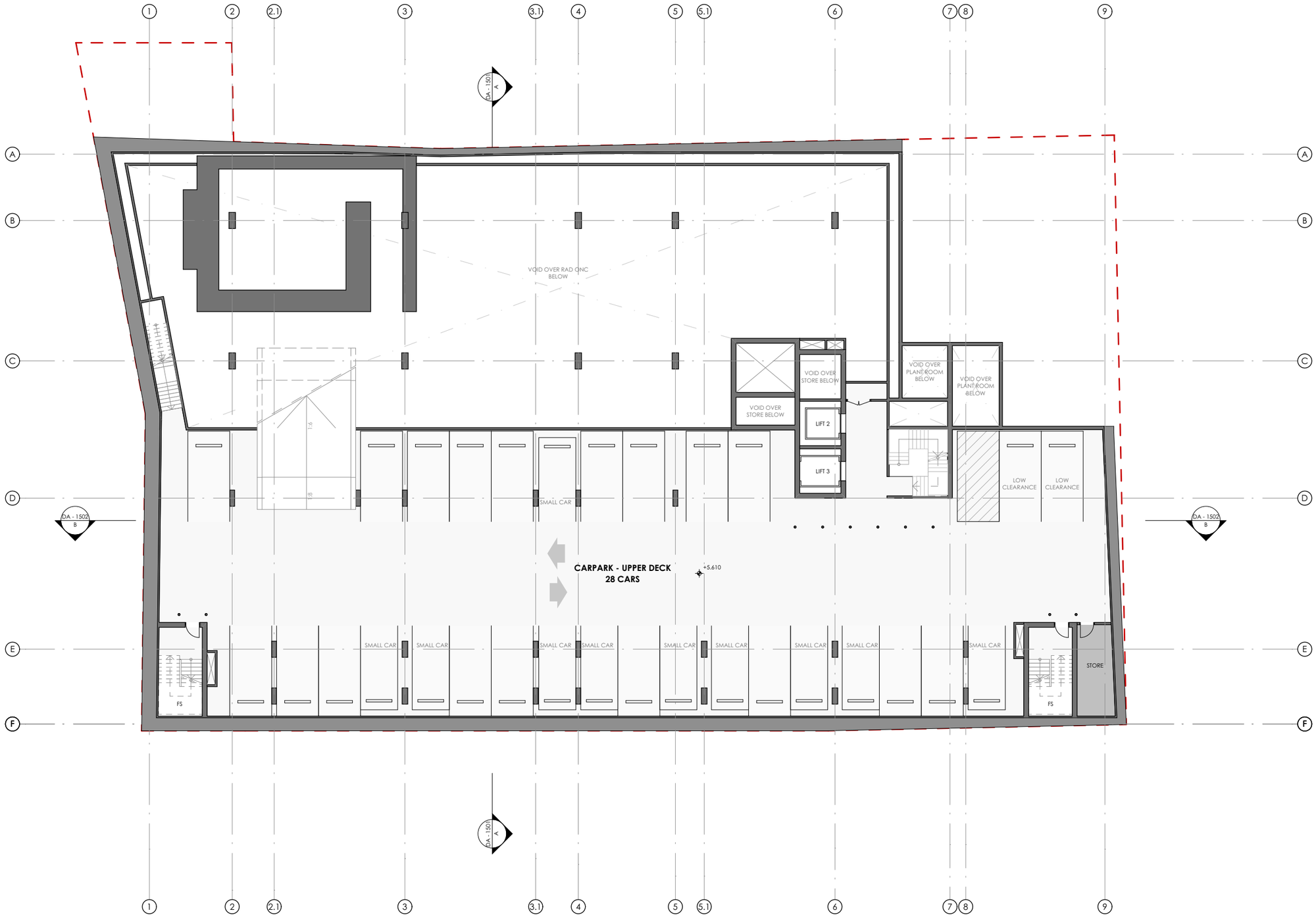
GENERAL ARRANGEMENT PLAN: SITE B - BANK LN

BASEMENT LEVEL 5 FLOOR PLAN - LOWER DECK

PROJECT NUMBER **22505**

DRAWING NUMBER **DA - 1301**

ISSUE **G**



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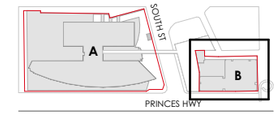
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SCALE 1:250 @A3

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PROJECT NORTH

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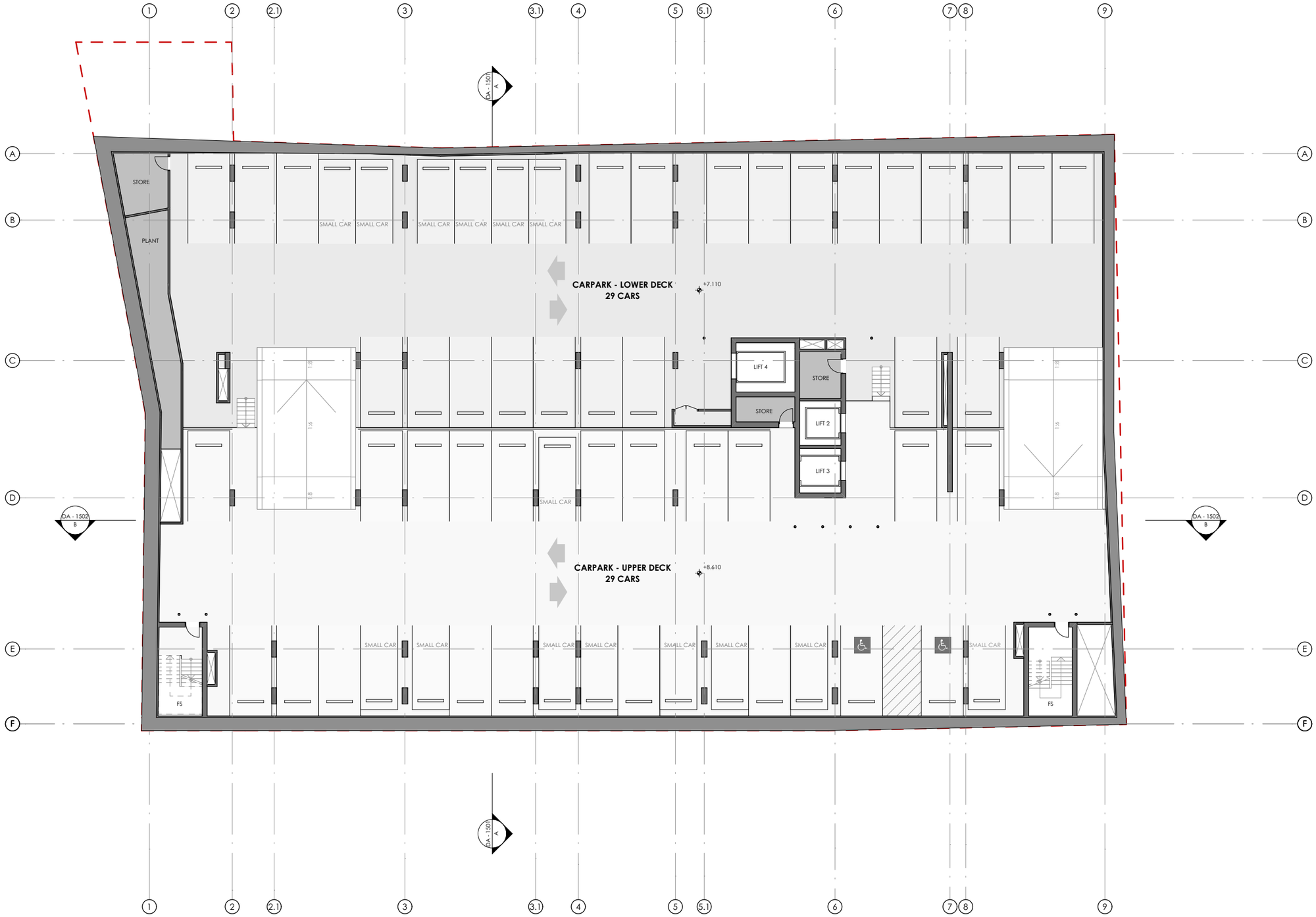
GENERAL ARRANGEMENT PLAN: SITE B - BANK LN

BASEMENT LEVEL 5 FLOOR PLAN - UPPER DECK

PROJECT NUMBER **22505**

DRAWING NUMBER **DA - 1302**

ISSUE **G**



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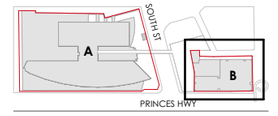
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Located on Bidjigal Country

PHASE DESIGN DEVELOPMENT - SSDA

PROJECT MANAGER

Akalan

SCALE 1:250 @A3

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DRAWN BY TEAM

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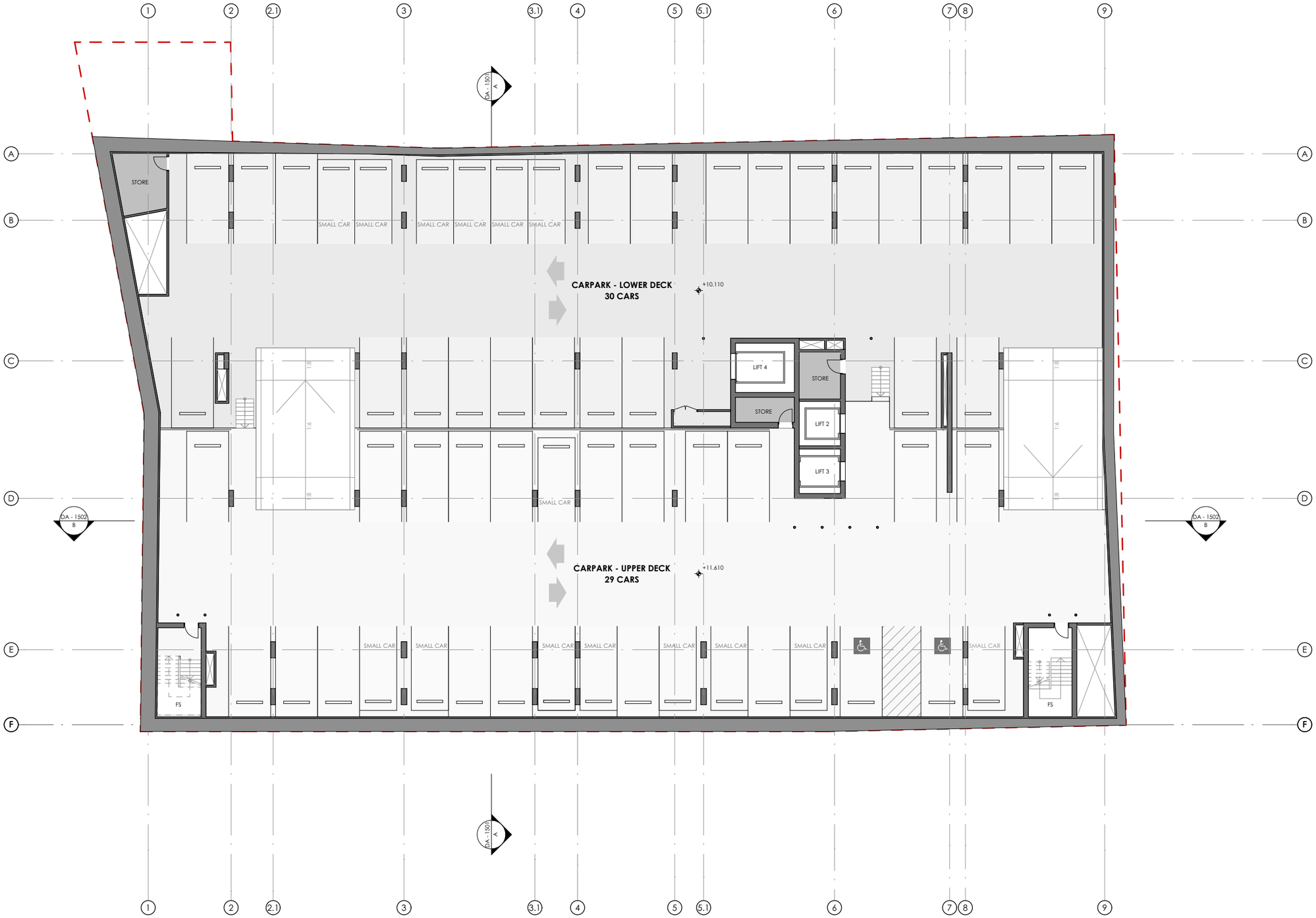
GENERAL ARRANGEMENT PLAN: SITE B - BANK LN

BASEMENT LEVEL 4 FLOOR PLAN

PROJECT NUMBER **22505**

DRAWING NUMBER **DA - 1303**

ISSUE **G**



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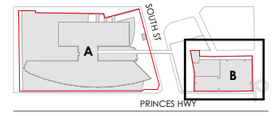
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Site B: 119-129 Princes Hwy & 2 Hogben St, Kogarah NSW 2217

Located on Bidjigal Country

PHASE DESIGN DEVELOPMENT - SSDA

PROJECT MANAGER

Akalan

SCALE 1:250 @A3

20mm ON ORIGINAL

DRAWN BY TEAM

APPROVED BY JF

PRINT DATE 10/20/2025

PROJECT NORTH

DRAWING

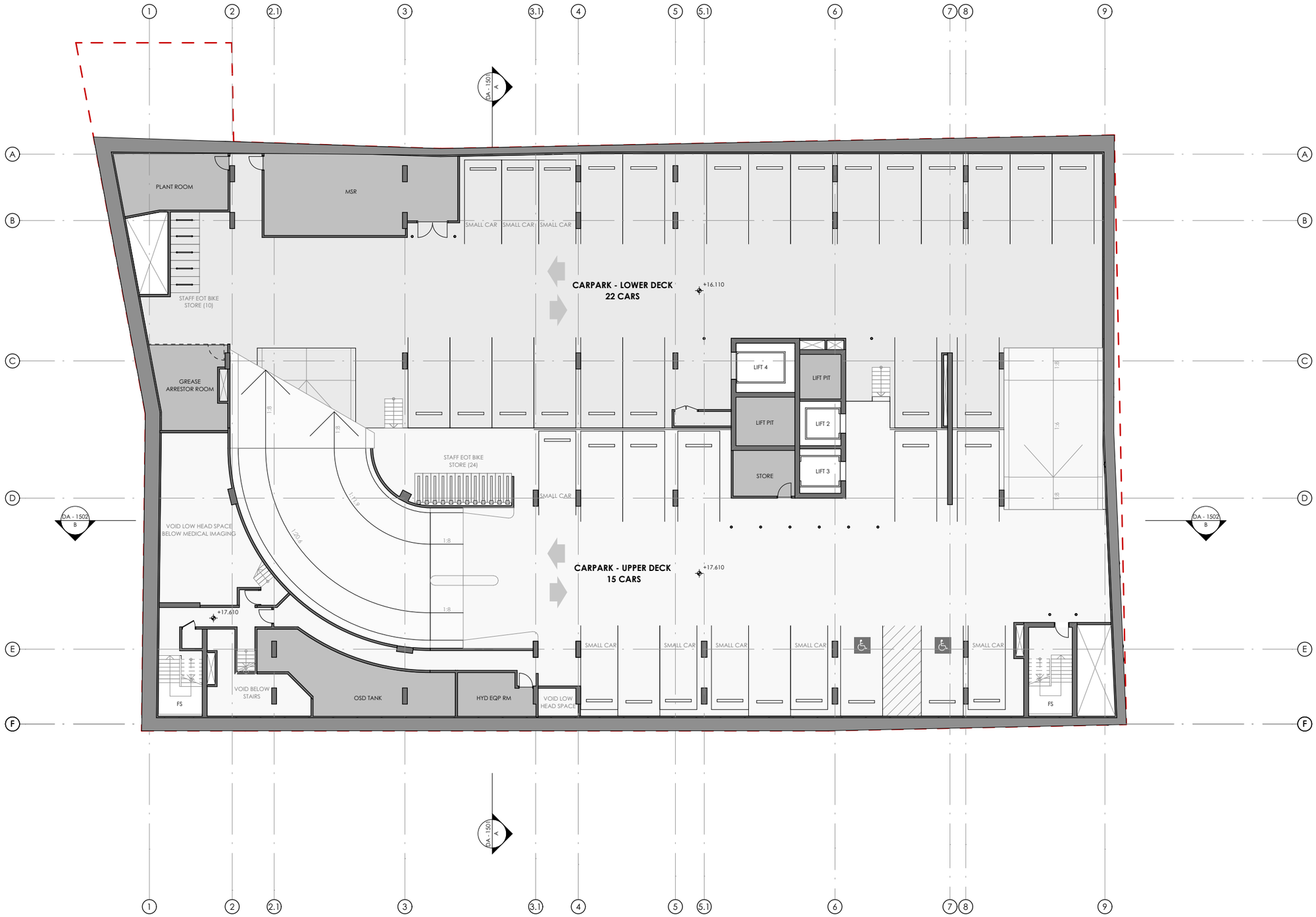
GENERAL ARRANGEMENT PLAN: SITE B - BANK LN

BASEMENT LEVEL 2/3 FLOOR PLAN - TYPICAL BASEMENT

PROJECT NUMBER **22505**

DRAWING NUMBER **DA - 1304**

ISSUE **G**



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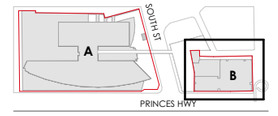
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- DEMOLITION SCOPE
- DASHED OUTLINE INDICATES EXTENT OF NEW DDA-COMPLIANT WORKS
- EXISTING WALLS AND STRUCTURE
- NEW WALLS AND STRUCTURE

PROJECT

St George Private Hospital Expansion

Site A: 1 South St, Kogarah NSW 2217
Site B: 119-129 Princes Hwy & 2 Hogben St, Kogarah NSW 2217

Located on Bidjigal Country

PHASE DESIGN DEVELOPMENT - SSDA

PROJECT MANAGER

Akalan

SCALE 1:250 @A3

DRAWN BY TEAM

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APPROVED BY JF

PRINT DATE 10/20/2025

PROJECT NORTH

DRAWING

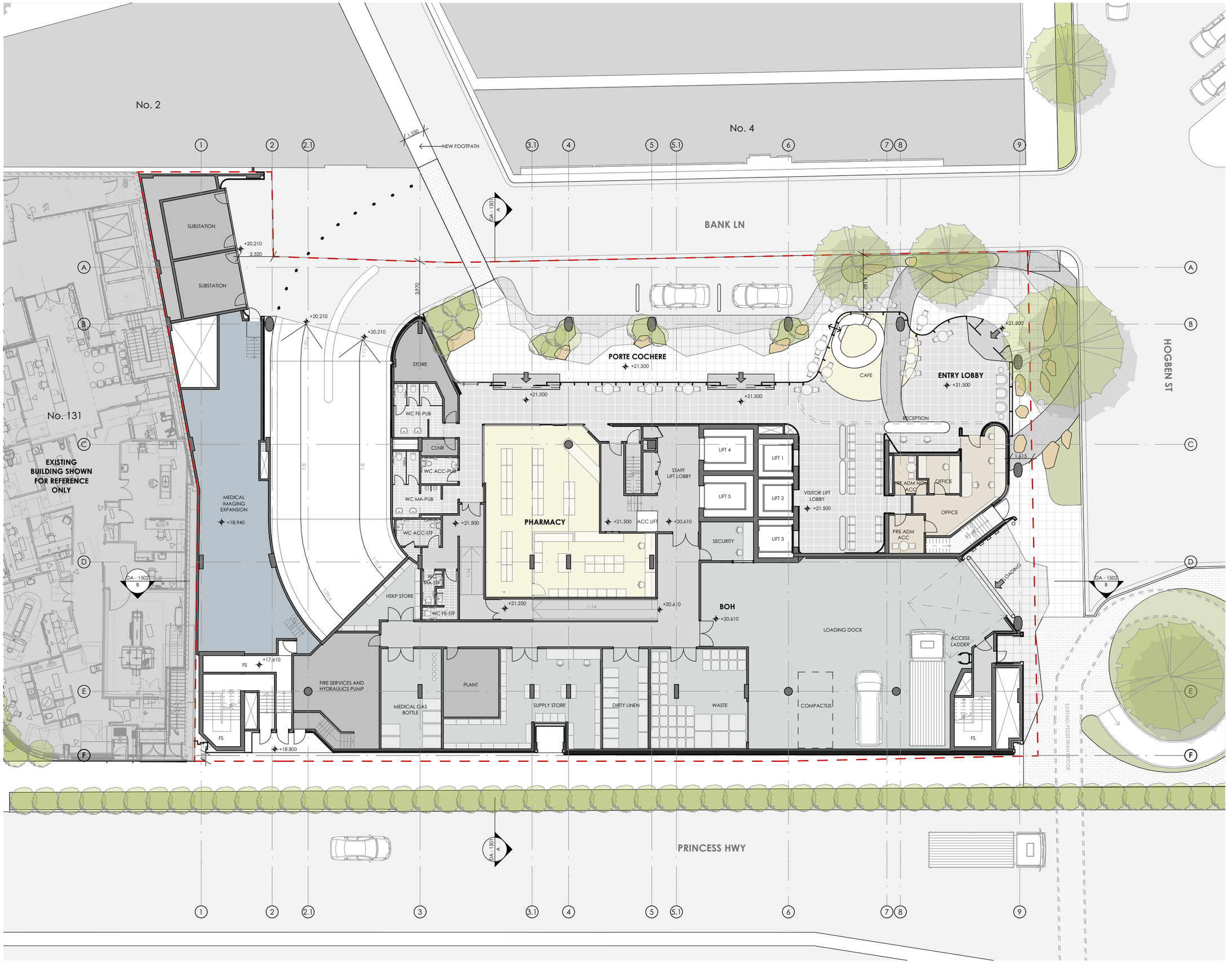
GENERAL ARRANGEMENT PLAN: SITE B - BANK LN

BASEMENT LEVEL 1 FLOOR PLAN

PROJECT NUMBER **22505**

DRAWING NUMBER **DA - 1305**

ISSUE **G**



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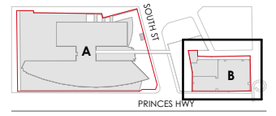
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PROJECT
St George Private Hospital Expansion

Site A: 1 South St, Kogarah NSW 2217
Site B: 119-129 Princes Hwy & 2 Hogben St, Kogarah NSW 2217

Located on Bidjigal Country

PHASE DESIGN DEVELOPMENT - SSDA

PROJECT MANAGER

Akalan

SCALE 1:250 @A3
20mm ON ORIGINAL

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APPROVED BY JF

PRINT DATE 10/20/2025

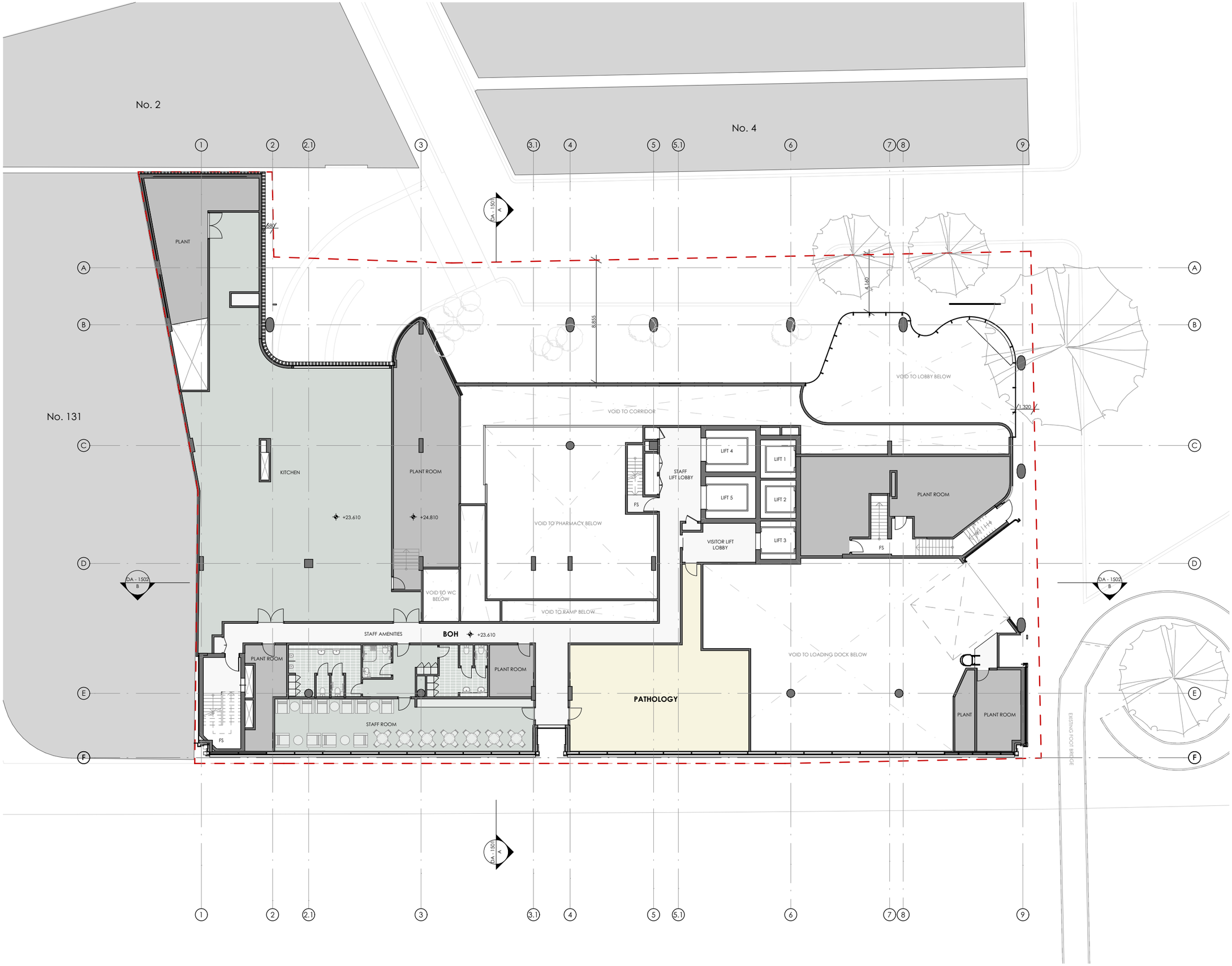
PROJECT NORTH

DRAWING
GENERAL ARRANGEMENT PLAN: SITE B - BANK LN
GROUND FLOOR PLAN

PROJECT NUMBER
22505

DRAWING NUMBER
DA - 1306

ISSUE
G



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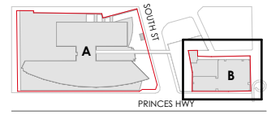
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PROJECT
St George Private Hospital Expansion

Site A: 1 South St, Kogarah NSW 2217
Site B: 119-129 Princes Hwy & 2 Hogben St, Kogarah NSW 2217

Located on Bidjigal Country

PHASE DESIGN DEVELOPMENT - SSDA

PROJECT MANAGER

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PRINT DATE 10/20/2025

PROJECT NORTH

DRAWING
GENERAL ARRANGEMENT PLAN: SITE B - BANK LN
MEZZANINE FLOOR PLAN

PROJECT NUMBER
22505

DRAWING NUMBER
DA - 1307

ISSUE
G



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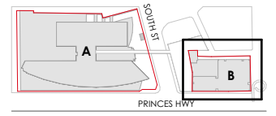
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PROJECT
St George Private Hospital Expansion

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Site B: 119-129 Princes Hwy & 2 Hogben St, Kogarah NSW 2217

Located on Bidjigal Country

PHASE DESIGN DEVELOPMENT - SSDA

PROJECT MANAGER

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PROJECT NORTH

DRAWING
GENERAL ARRANGEMENT PLAN: SITE B - BANK LN
LEVEL 1 FLOOR PLAN

PROJECT NUMBER
22505

DRAWING NUMBER
DA - 1308
ISSUE
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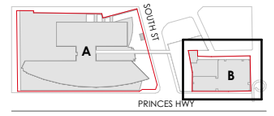
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PROJECT

St George Private Hospital Expansion

Site A: 1 South St, Kogarah NSW 2217
Site B: 119-129 Princes Hwy & 2 Hogben St, Kogarah NSW 2217

Located on Bidjigal Country

PHASE DESIGN DEVELOPMENT - SSDA

PROJECT MANAGER

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SCALE 1:250 @A3

20mm ON ORIGINAL

DRAWN BY TEAM

APPROVED BY JF

PRINT DATE 10/20/2025

PROJECT NORTH

DRAWING

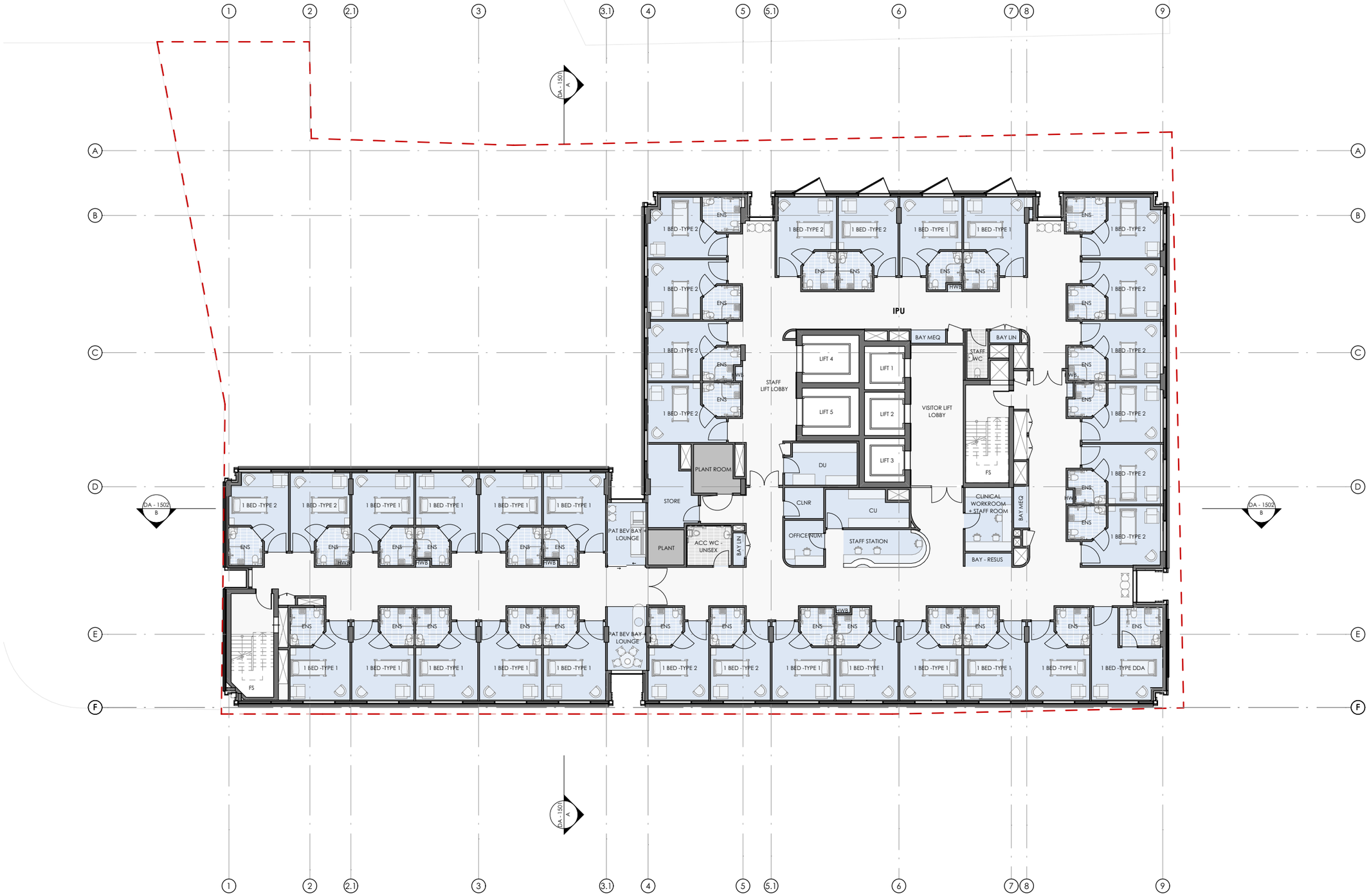
GENERAL ARRANGEMENT PLAN: SITE B - BANK LN

LEVEL 2 FLOOR PLAN

PROJECT NUMBER **22505**

DRAWING NUMBER **DA - 1309**

ISSUE **B G**



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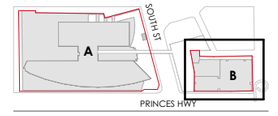
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PROJECT
St George Private Hospital Expansion

Site A: 1 South St, Kogarah NSW 2217
Site B: 119-129 Princes Hwy & 2 Hogben St, Kogarah NSW 2217

Located on Bidjigal Country

PHASE DESIGN DEVELOPMENT - SSDA

PROJECT MANAGER

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PROJECT NORTH

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GENERAL ARRANGEMENT PLAN: SITE B - BANK LN
LEVEL 3-5 FLOOR PLAN - TYPICAL IPU

PROJECT NUMBER
22505

DRAWING NUMBER **DA - 1310**
ISSUE **G**



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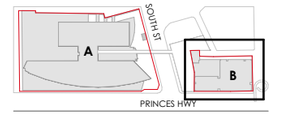
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PROJECT
St George Private Hospital Expansion

Site A: 1 South St, Kogarah NSW 2217
Site B: 119-129 Princes Hwy & 2 Hogben St, Kogarah NSW 2217

Located on Bidjigal Country

PHASE DESIGN DEVELOPMENT - SSDA

PROJECT MANAGER

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GENERAL ARRANGEMENT PLAN: SITE B - BANK LN
LEVEL 6 FLOOR PLAN - CONSULTING/ PLANT

PROJECT NUMBER
22505

DRAWING NUMBER
DA - 1311
ISSUE
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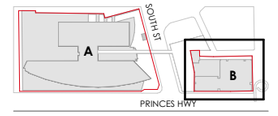
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PROJECT

St George Private Hospital Expansion

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Located on Bidjigal Country

PHASE DESIGN DEVELOPMENT - SSDA

PROJECT MANAGER

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DRAWN BY TEAM

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PRINT DATE 10/20/2025

PROJECT NORTH

DRAWING

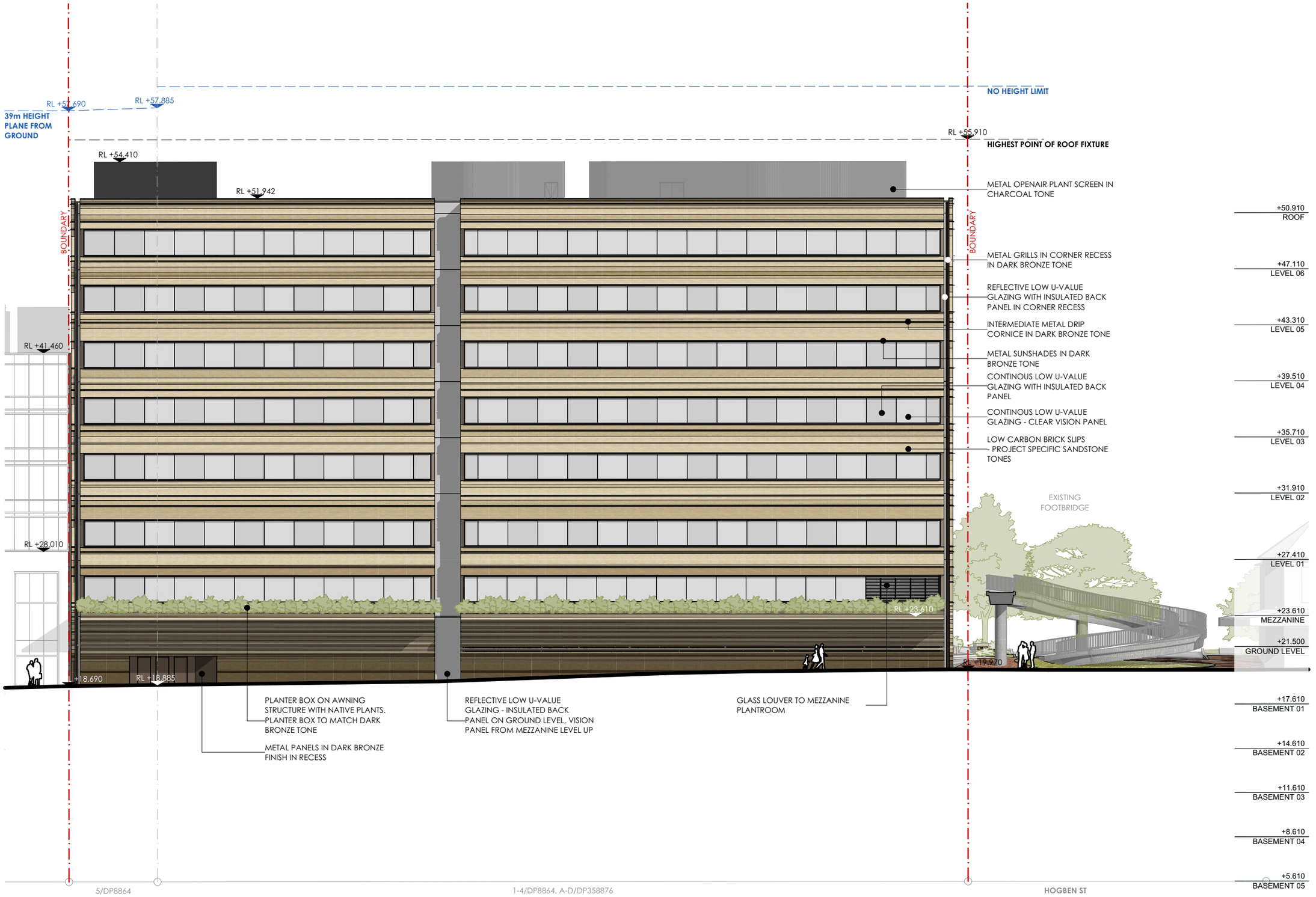
GENERAL ARRANGEMENT PLAN: SITE B - BANK LN

ROOF PLAN

PROJECT NUMBER **22505**

DRAWING NUMBER **DA - 1312**

ISSUE **C G**



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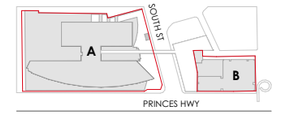
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PROJECT
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Site A: 1 South St, Kogarah NSW 2217
Site B: 119-129 Princes Hwy & 2 Hogben St, Kogarah NSW 2217

Located on Bidjigal Country

PHASE DESIGN DEVELOPMENT - SSDA

PROJECT MANAGER

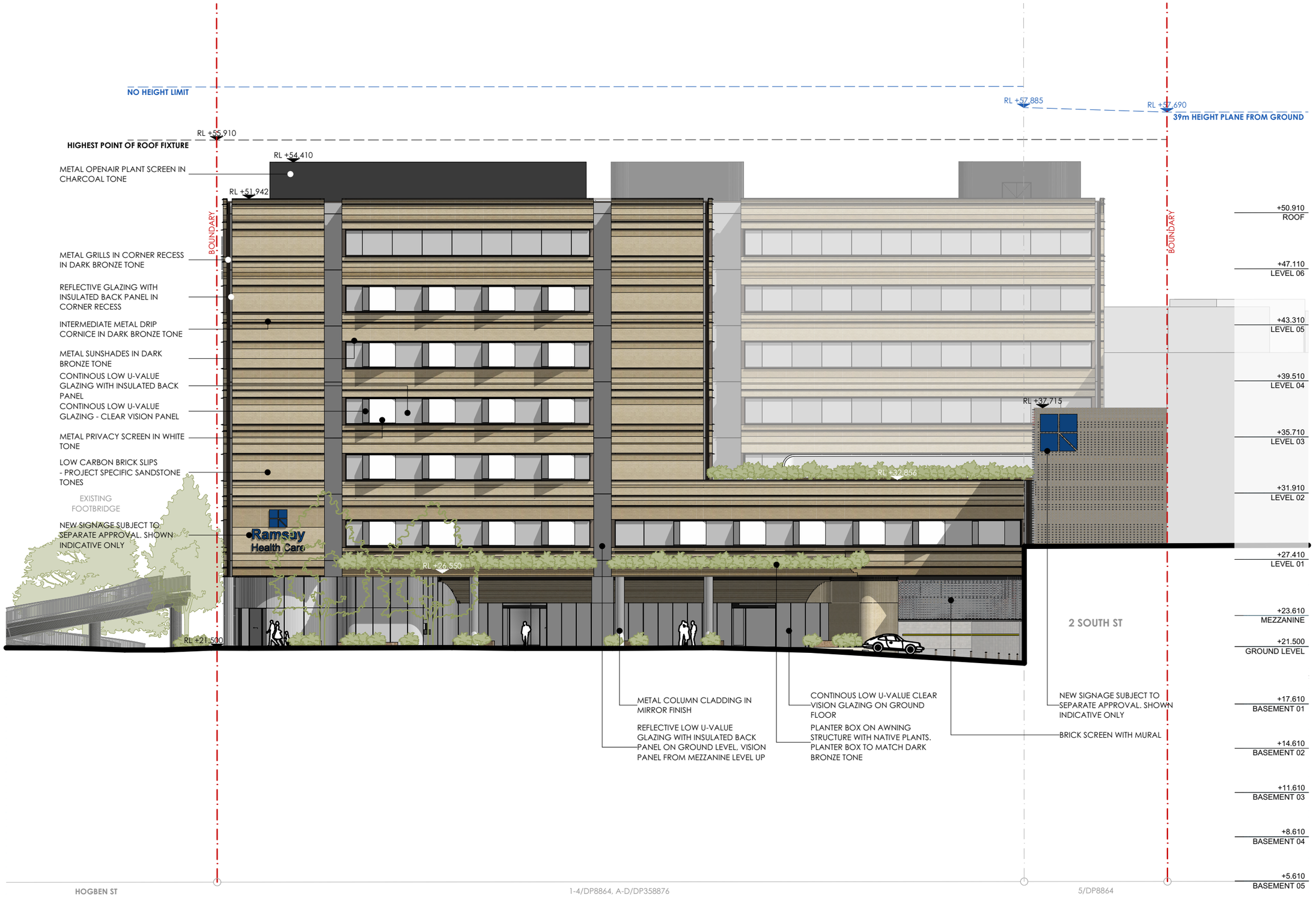
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APPROVED BY JF
PRINT DATE 10/20/2025

DRAWING
GENERAL ARRAGNEMENT ELEVATION: SITE B - BANK LN
ELEVATION EAST

PROJECT NUMBER
22505

DRAWING NUMBER
DA - 1401
ISSUE
G



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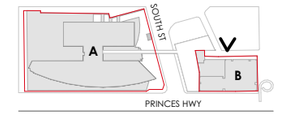
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PHASE DESIGN DEVELOPMENT - SSDA

PROJECT MANAGER

Akalan

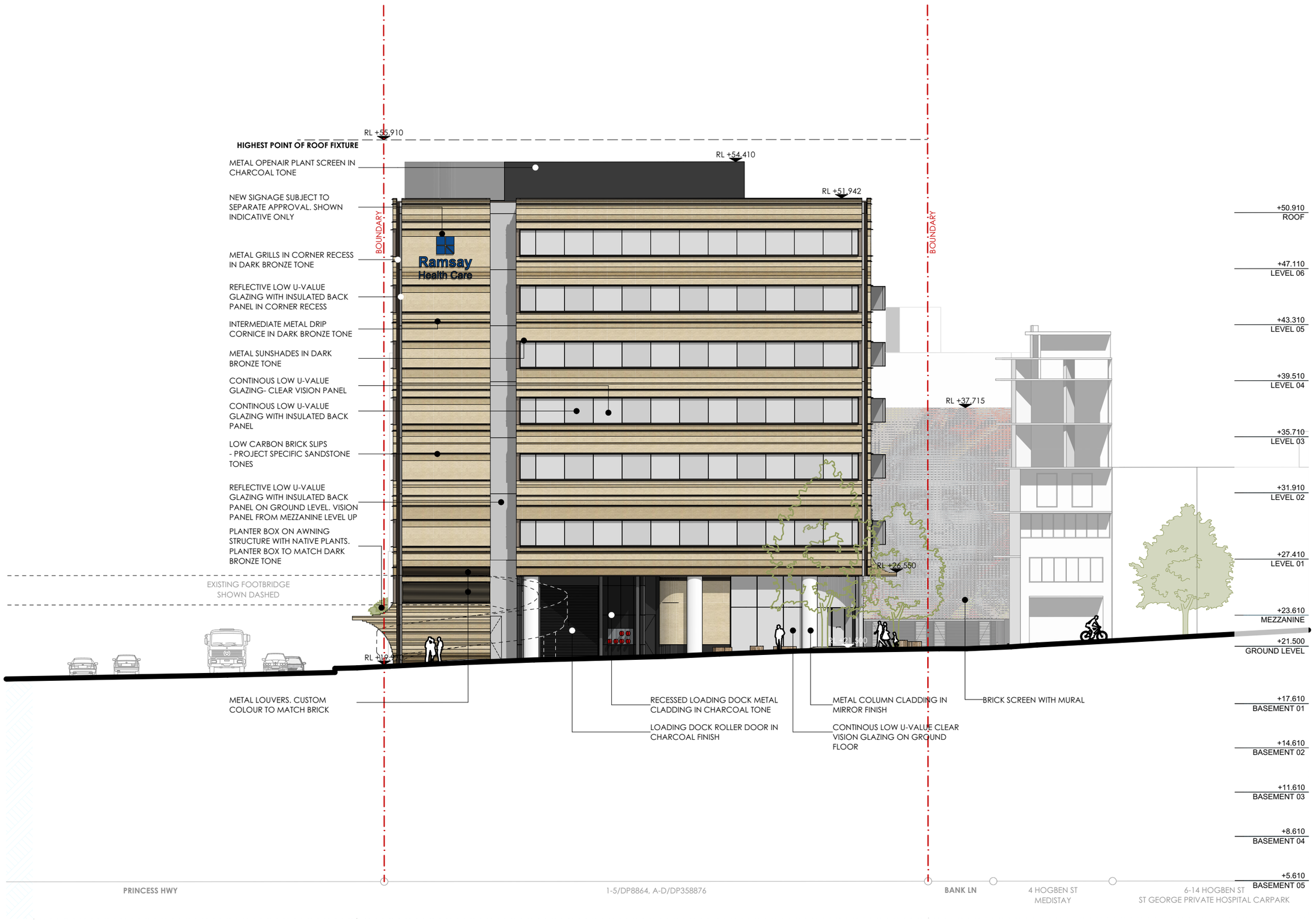
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20mm ON ORIGINAL
DRAWN BY TEAM
APPROVED BY JF

PRINT DATE
10/20/2025

DRAWING
GENERAL ARRAGNEMENT ELEVATION: SITE B - BANK LN
ELEVATION WEST

PROJECT NUMBER
22505

DRAWING NUMBER
DA - 1402
ISSUE
G



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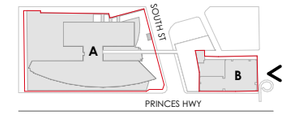
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KEY:



PROJECT
St George Private Hospital Expansion

Site A: 1 South St, Kogarah NSW 2217
Site B: 119-129 Princes Hwy & 2 Hogben St, Kogarah NSW 2217

Located on Bidjigal Country

PHASE DESIGN DEVELOPMENT - SSDA

PROJECT MANAGER

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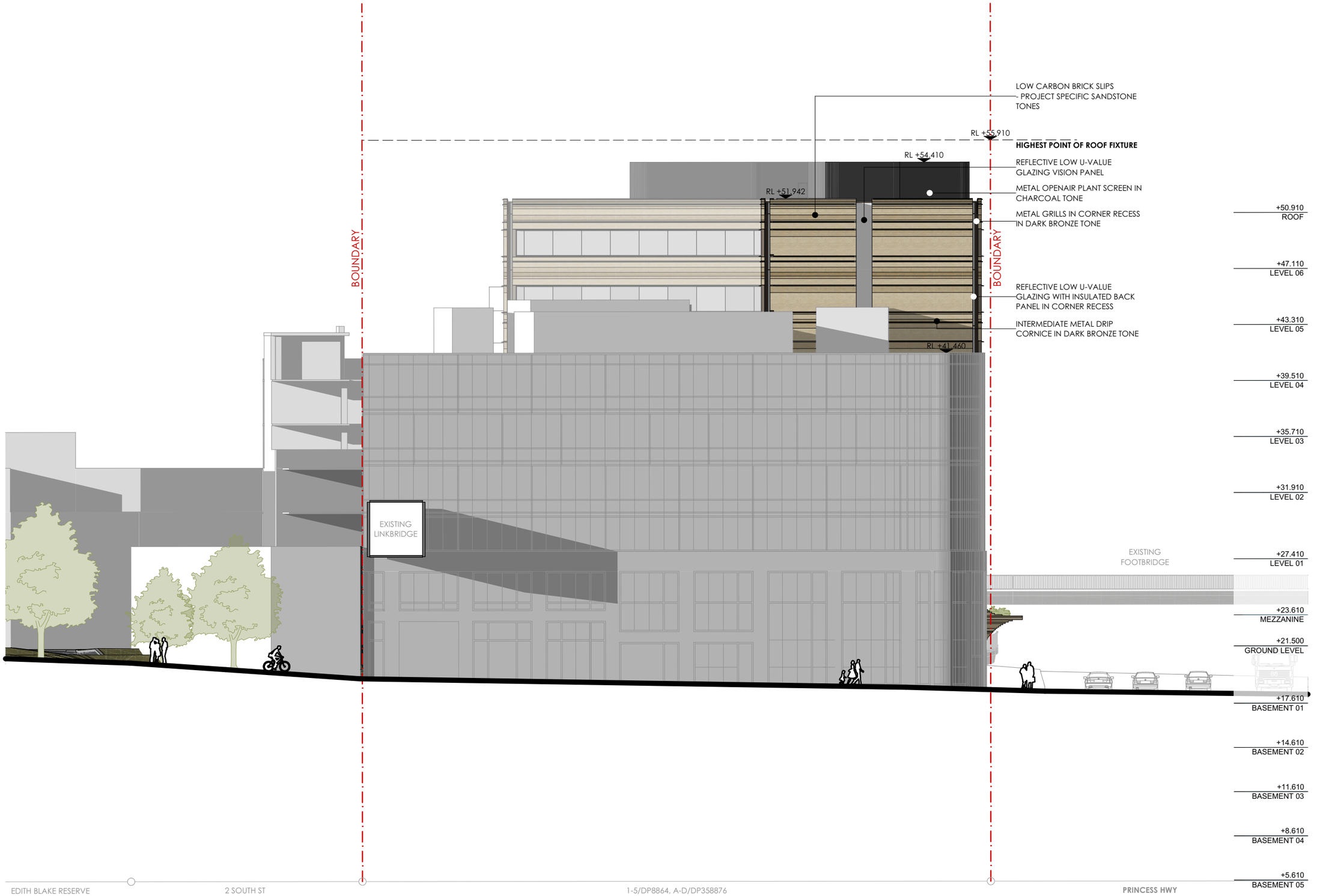
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PRINT DATE
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DRAWING
GENERAL ARRAGNEMENT ELEVATION: SITE B - BANK LN
ELEVATION NORTH

PROJECT NUMBER
22505

DRAWING NUMBER
DA - 1403
ISSUE
G



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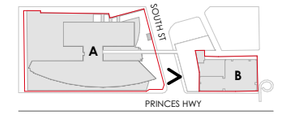
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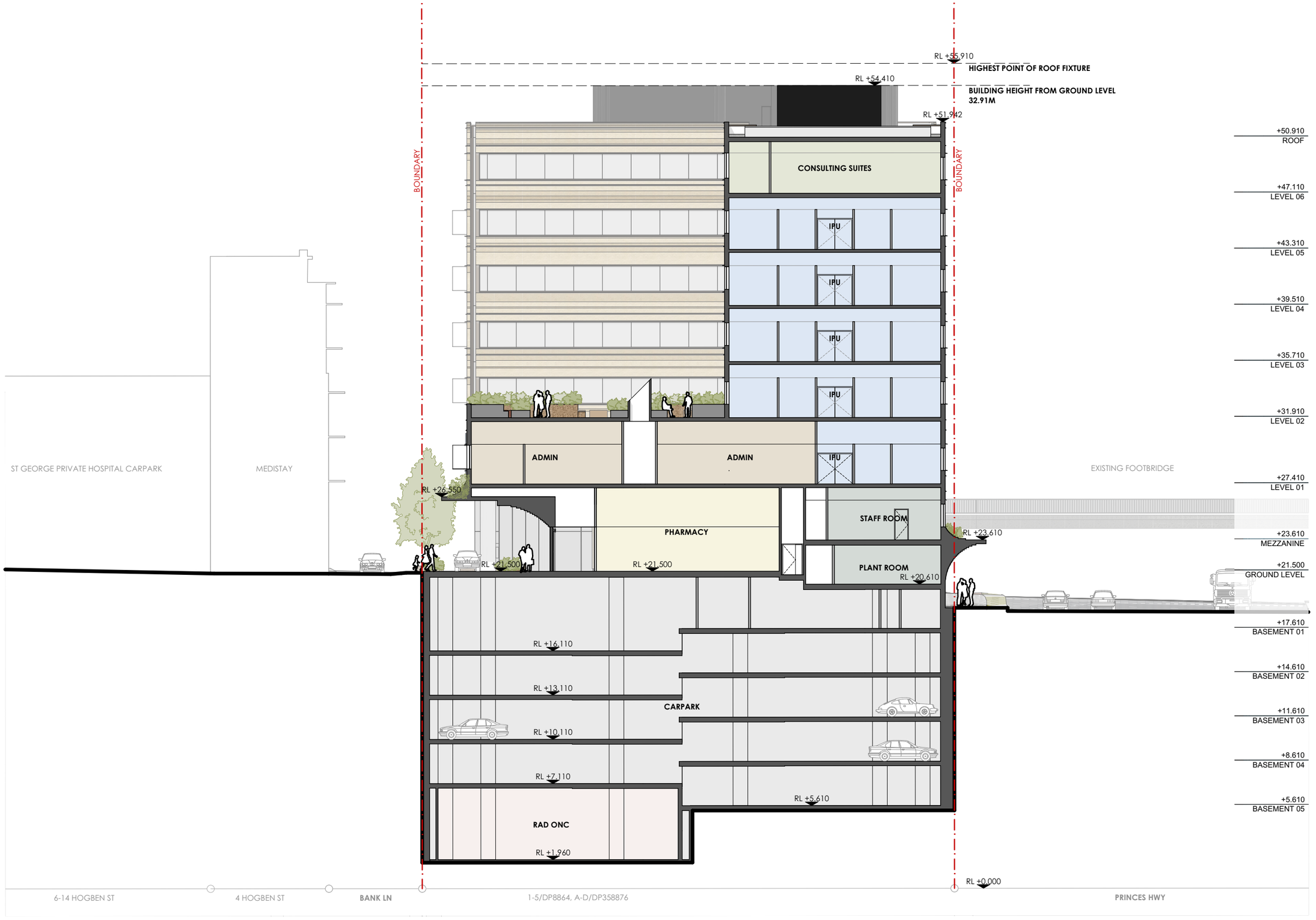
PRINT DATE
10/20/2025

DRAWING
GENERAL ARRAGNEMENT ELEVATION: SITE B - BANK LN
ELEVATION SOUTH

PROJECT NUMBER
22505

DRAWING NUMBER
DA - 1404

ISSUE
G



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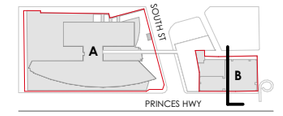
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PRINT DATE 10/20/2025

DRAWING
GENERAL ARRANGEMENT SECTION: SITE B - BANK LN
SECTION A-A

PROJECT NUMBER **22505**

DRAWING NUMBER **DA - 1501**

ISSUE **G**



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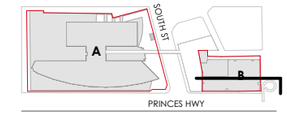
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PHASE DESIGN DEVELOPMENT - SSDA

PROJECT MANAGER

Akalan

SCALE 1:250 @A3

20mm ON ORIGINAL

DRAWN BY TEAM

APPROVED BY JF

PRINT DATE 10/20/2025

DRAWING
GENERAL ARRANGEMENT SECTION: SITE B - BANK LN
SECTION B-B

PROJECT NUMBER **22505**

DRAWING NUMBER **DA - 1502**

ISSUE **G**





01. BRICK CLADDING
LOW CARBON BRICK SLIPS
- PROJECT SPECIFIC SANDSTONE TONES



02. SUNSHADES/ INTERMEDIATE METAL DRIP CORNICE / RECESS METAL GRILLS
SATIN FINISH IN DARK BRONZE TONE



03. OPENAIR ROOF PLANT SCREEN / LOADING DOCK/ SUBSTATION
SATIN METAL FINISH IN CHARCOAL TONE



04. ABOVE GF GLAZING
CONTINOUS LOW U-VALUE GLAZING - CLEAR VISION PANEL OR WITH INSULATED BACK PANEL



05. RECESS GLAZING
REFLECTIVE LOW U-VALUE GLAZING WITH INSULATED BACK PANEL ON GROUND LEVEL / VISION PANEL FROM MEZZANINE LEVEL UP



06. GF GLAZING
CONTINOUS LOW U-VALUE CLEAR VISION GLAZING

07. PRIVACY SCREEN
METAL PRIVACY SCREEN IN WHITE TONE IN SATIN FINISH



08. PLANTING
PLANTER BOX ON AWNING STRUCTURE WITH NATIVE PLANTS. PLANTER BOX TO MATCH DARK BRONZE TONE



09. GF COLUMN CLADDING
METAL CLADDING IN MIRROR FINISH



10. PLANT ROOM BRICK SCREEN
BRICK SCREEN WITH MURAL

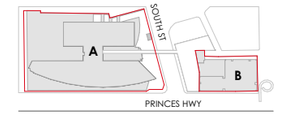
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PHASE DESIGN DEVELOPMENT - SSDA

PROJECT MANAGER

Akalan

DRAWN BY
TEAM

APPROVED BY
JF

PRINT DATE
10/20/2025

DRAWING
MATERIALITY: SITE B - BANK LN
MATERIALITY

PROJECT NUMBER
22505

DRAWING NUMBER
DA - 1601

ISSUE
G

LEVEL	USE
Roof	Open Air Plant Room / Solar Farm / Lift Over Run
Level 6	Consulting Suites / Open Air Plant Room
Level 5	IPU
Level 4	IPU
Level 3	IPU
Level 2	IPU / Roof Garden
Level 1	IPU / Admin / Bridge Link
Mezzanine	Kitchen / Staff Room / Pathology
Ground Floor	Entry Lobby / Café / Reception / Admin / Pharmacy / Medical Imaging Loading / Store / Plant Rooms
Basement Level 1	Parking / Store / OSD / Plant Rooms
Basement Level 2	Parking / Store
Basement Level 3	Parking / Store
Basement Level 4	Parking / Store
Basement Level 5	Oncology / Parking / Store

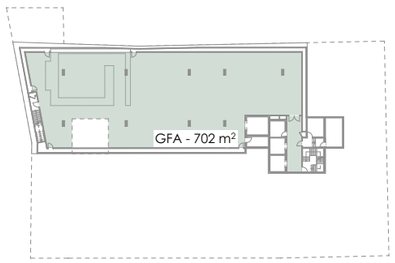
RL (m)	FLOOR TO FLOOR (m)
50.91	3.8
47.11	3.8
43.31	3.8
39.51	3.8
35.71	3.8
31.91	3.8
27.41	4.5
23.61	3.8
21.5	5.91
17.61	3/ 5.39 (Lower)
14.61	3
11.61	3
8.61	3
5.61	3 / 5.15 (Oncology)

GBA (sqm)	GFA (sqm)
1446	
1446	830
1446	1250
1446	1250
1446	1250
2020	1250
2020	1788
1777	647
1769	985
2220	
2220	
2220	
2220	
2017	702
25713	**9952**

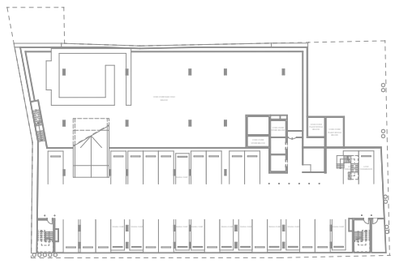
CAR PARK	BED COUNT
	33
	33
	33
	32
	24
37	
59	
59	
58	
28	
241	**155**

NOTE: GBA EXCLUDES GROUND FLOOR PORTE COCHERE AREA AND INCLUDES ROOF GARDEN ON LEVEL 1

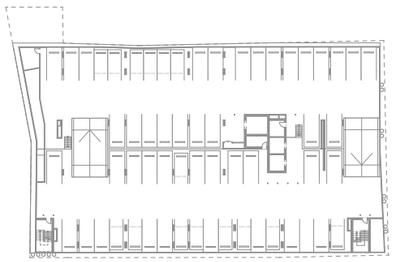
GFA DIAGRAM



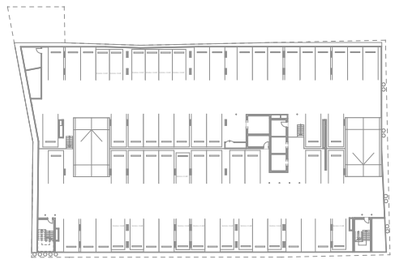
BASEMENT LEVEL 5 - LOWER DECK



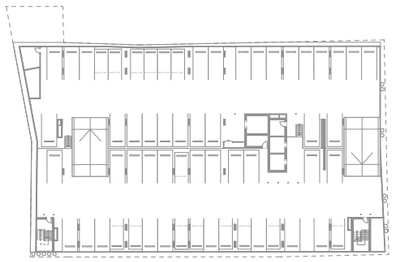
BASEMENT LEVEL 5 - UPPER DECK



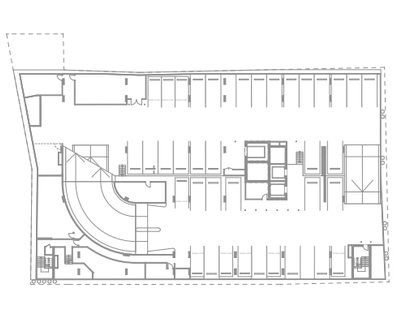
BASEMENT LEVEL 4



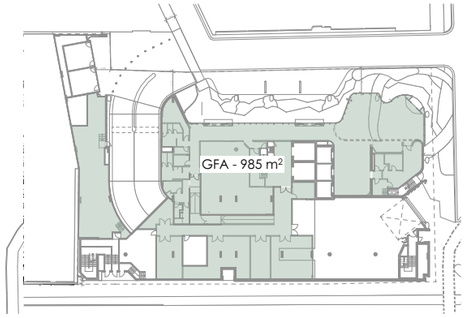
BASEMENT LEVEL 3



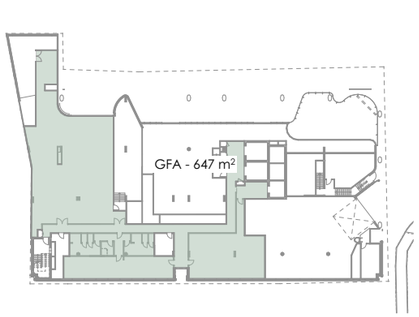
BASEMENT LEVEL 2



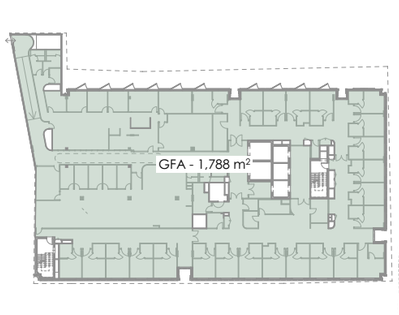
BASEMENT LEVEL 1



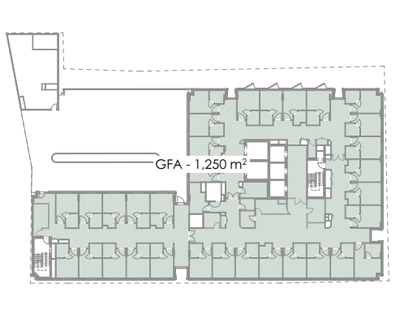
GROUND FLOOR



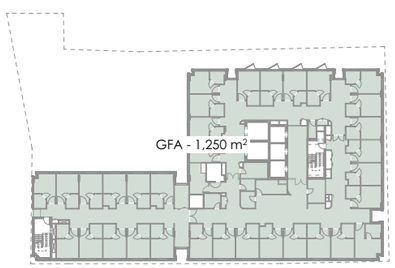
MEZZANINE



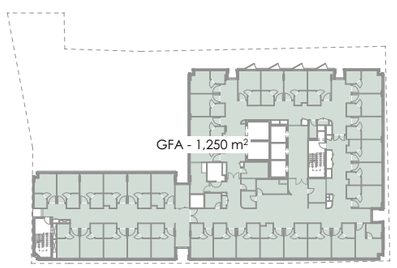
LEVEL 1



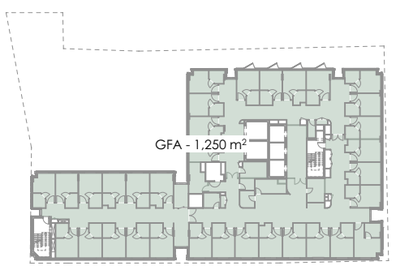
LEVEL 2



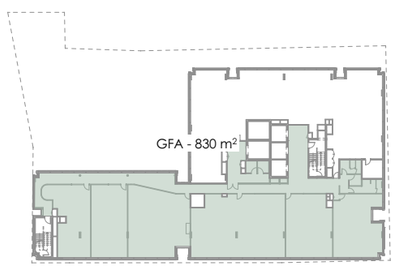
LEVEL 3



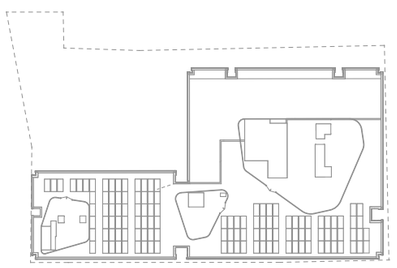
LEVEL 4



LEVEL 5



BASEMENT LEVEL 6



ROOF

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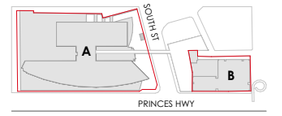
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APPROVED BY
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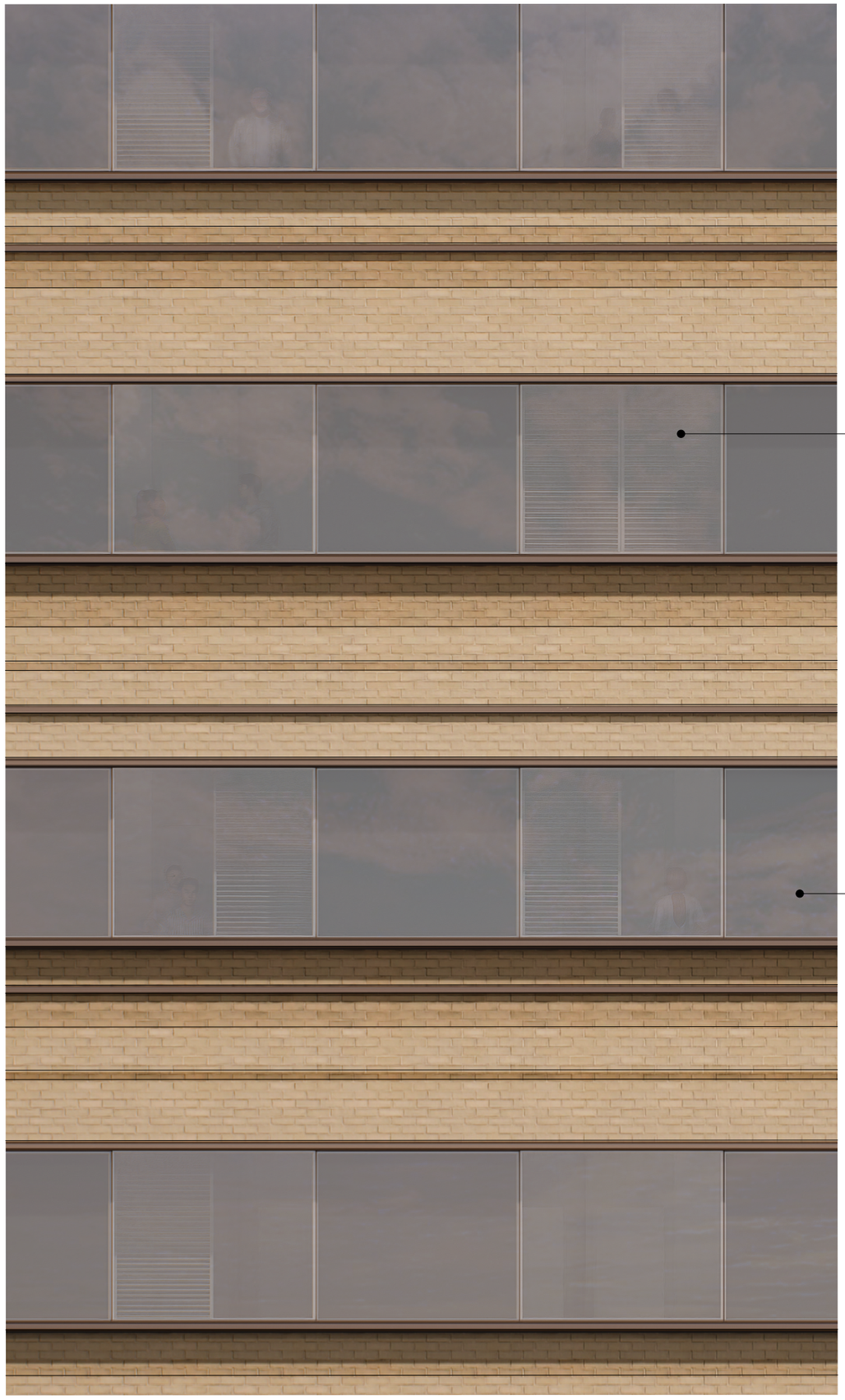
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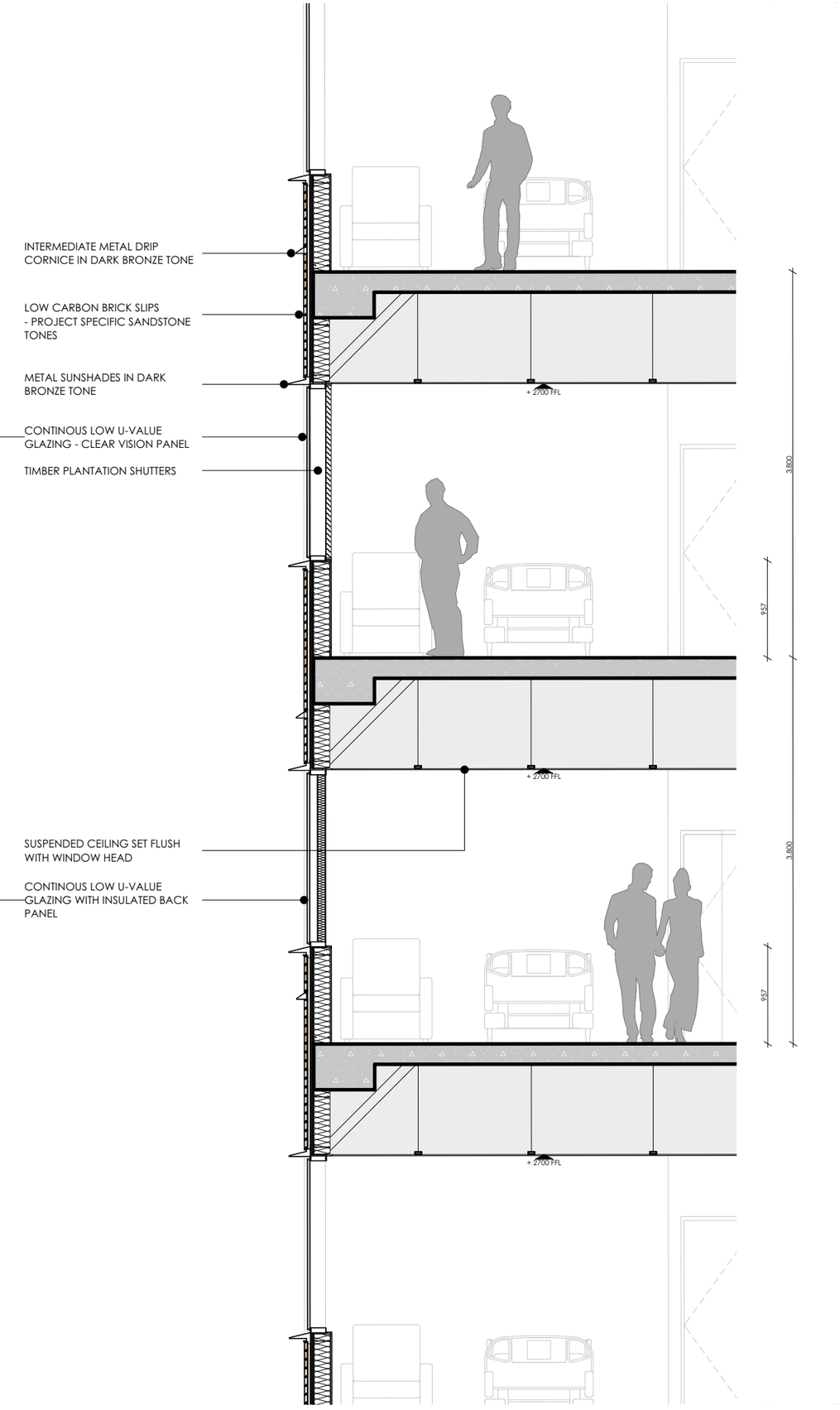
DRAWING
APPENDIX: SITE B - BANK LN
AREA SCHEDULE

PROJECT NUMBER
22505

DRAWING NUMBER
DA - 1701

ISSUE
G





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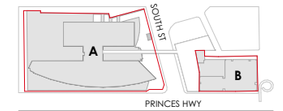
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KEY:



PROJECT

St George Private Hospital Expansion

Site A: 1 South St, Kogarah NSW 2217
Site B: 119-129 Princes Hwy & 2 Hogben St, Kogarah NSW 2217

Located on Bidjigal Country

PHASE DESIGN DEVELOPMENT - SSDA

PROJECT MANAGER

Akalan

DRAWN BY
TEAM

APPROVED BY
JF

PRINT DATE
10/20/2025

DRAWING
DETAIL: SITE B - BANK LN
FACADE DETAILS - TYPICAL

PROJECT NUMBER
22505

DRAWING NUMBER
DA - 1701

ISSUE
G

KEY

SITE BOUNDARY

EXISTING SHADOWS

ADDITIONAL SHADOWS FROM PRPOSED DEVELOPMENT



9AM
JUNE 21ST



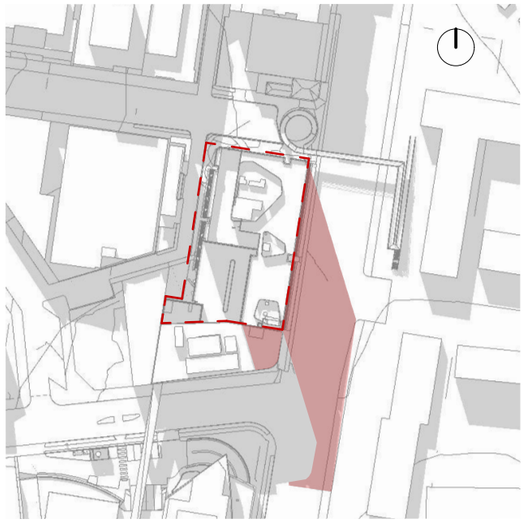
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JUNE 21ST



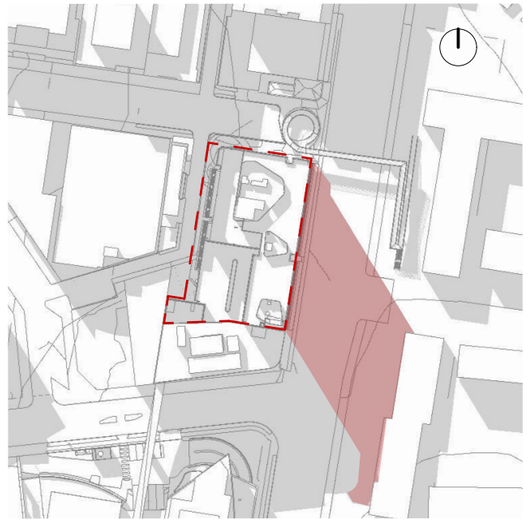
11AM
JUNE 21ST



12 PM
JUNE 21ST



1 PM
JUNE 21ST



2PM
JUNE 21ST



3PM
JUNE 21ST

fitzpatrick +partners

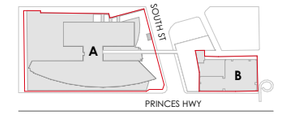
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w. WWW.FITZPATRICKPARTNERS.COM
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PHASE DESIGN DEVELOPMENT - SSDA

PROJECT MANAGER

Akalan

DRAWN BY
TEAM

APPROVED BY
JF

PRINT DATE
10/20/2025

DRAWING
APPENDIX: SITE B - BANK LN
SHADOW DIAGRAM

PROJECT NUMBER
22505

DRAWING NUMBER
DA - 1702

ISSUE
G



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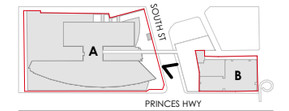
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St George Private Hospital Expansion

Site A: 1 South St, Kogarah NSW 2217
Site B: 119-129 Princes Hwy & 2 Hogben St, Kogarah NSW 2217

Located on Bidjigal Country

PHASE DESIGN DEVELOPMENT - SSDA

PROJECT MANAGER

Akalan

SCALE
1:3.01 @A3

DRAWN BY
TEAM

20mm ON ORIGINAL

APPROVED BY
JF

PRINT DATE
10/20/2025

DRAWING
3D MONTAGE: : SITE A - SOUTH ST
3D MONTAGE

PROJECT NUMBER
22505

DRAWING NUMBER
DA - 2101

ISSUE
G



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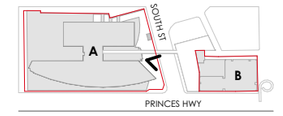
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PROJECT
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Site A: 1 South St, Kogarah NSW 2217
Site B: 119-129 Princes Hwy & 2 Hogben St, Kogarah NSW 2217

Located on Bidjigal Country

PHASE DESIGN DEVELOPMENT - SSDA

PROJECT MANAGER

Akalan

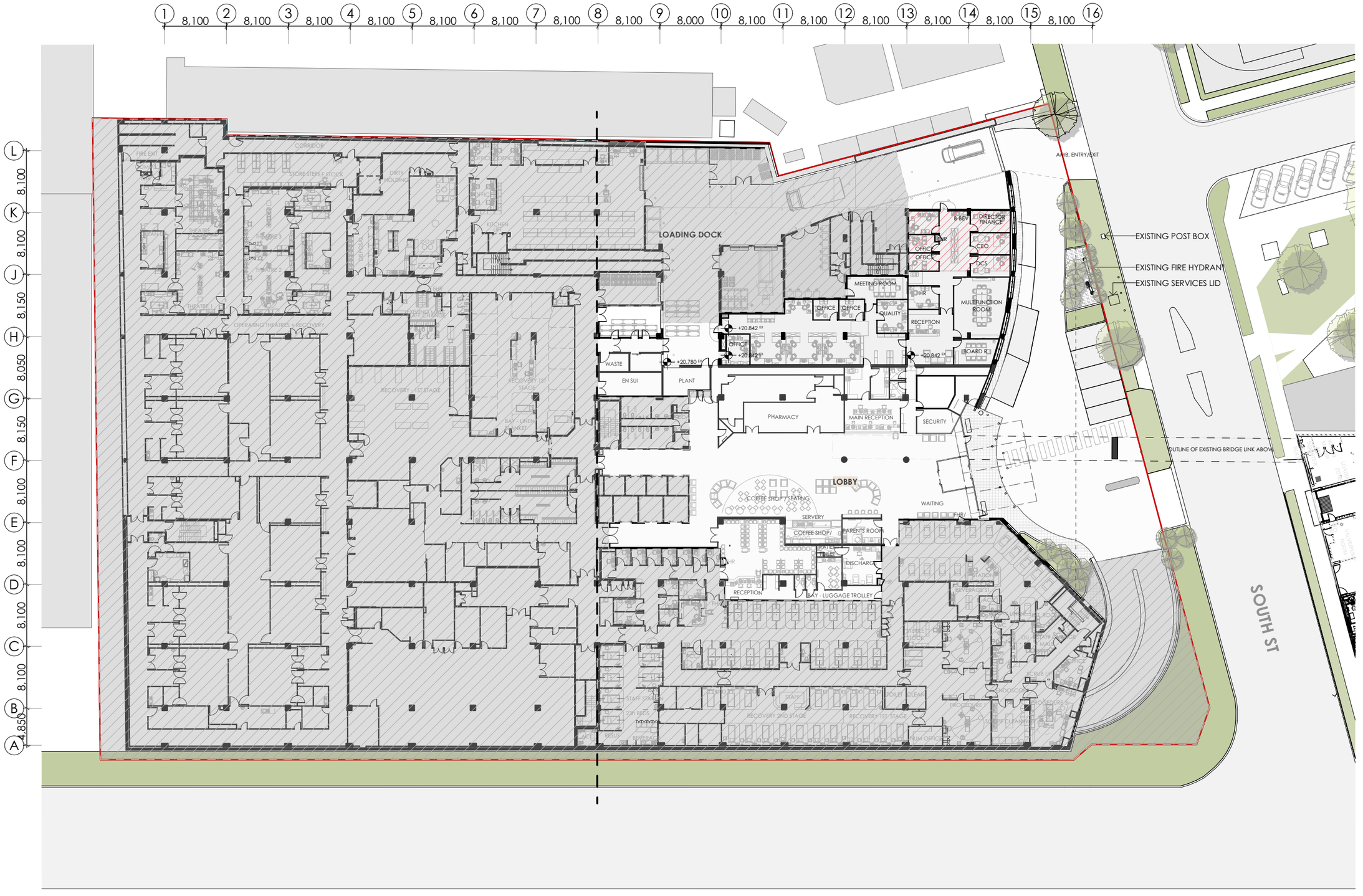
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20mm ON ORIGINAL
APPROVED BY JF

PRINT DATE
10/20/2025

DRAWING
3D MONTAGE: : SITE A - SOUTH ST
3D MONTAGE

PROJECT NUMBER
22505

DRAWING NUMBER
DA - 2102
ISSUE
G



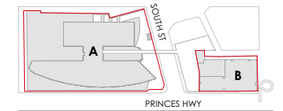
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KEY:



GENERAL LEGEND:

- REFER TO OTHER DRAWINGS OR OUT OF SCOPE
- SITE BOUNDARY LINE
- DEMOLITION SCOPE
- DASHED OUTLINE INDICATES EXTENT OF NEW DDA-COMPLIANT WORKS
- EXISTING WALLS AND STRUCTURE
- NEW WALLS AND STRUCTURE

PROJECT
St George Private Hospital Expansion

Site A: 1 South St, Kogarah NSW 2217
Site B: 119-129 Princes Hwy & 2 Hogben St, Kogarah NSW 2217

Located on Bidjigal Country

PHASE DESIGN DEVELOPMENT - SSDA

PROJECT MANAGER

Akalan

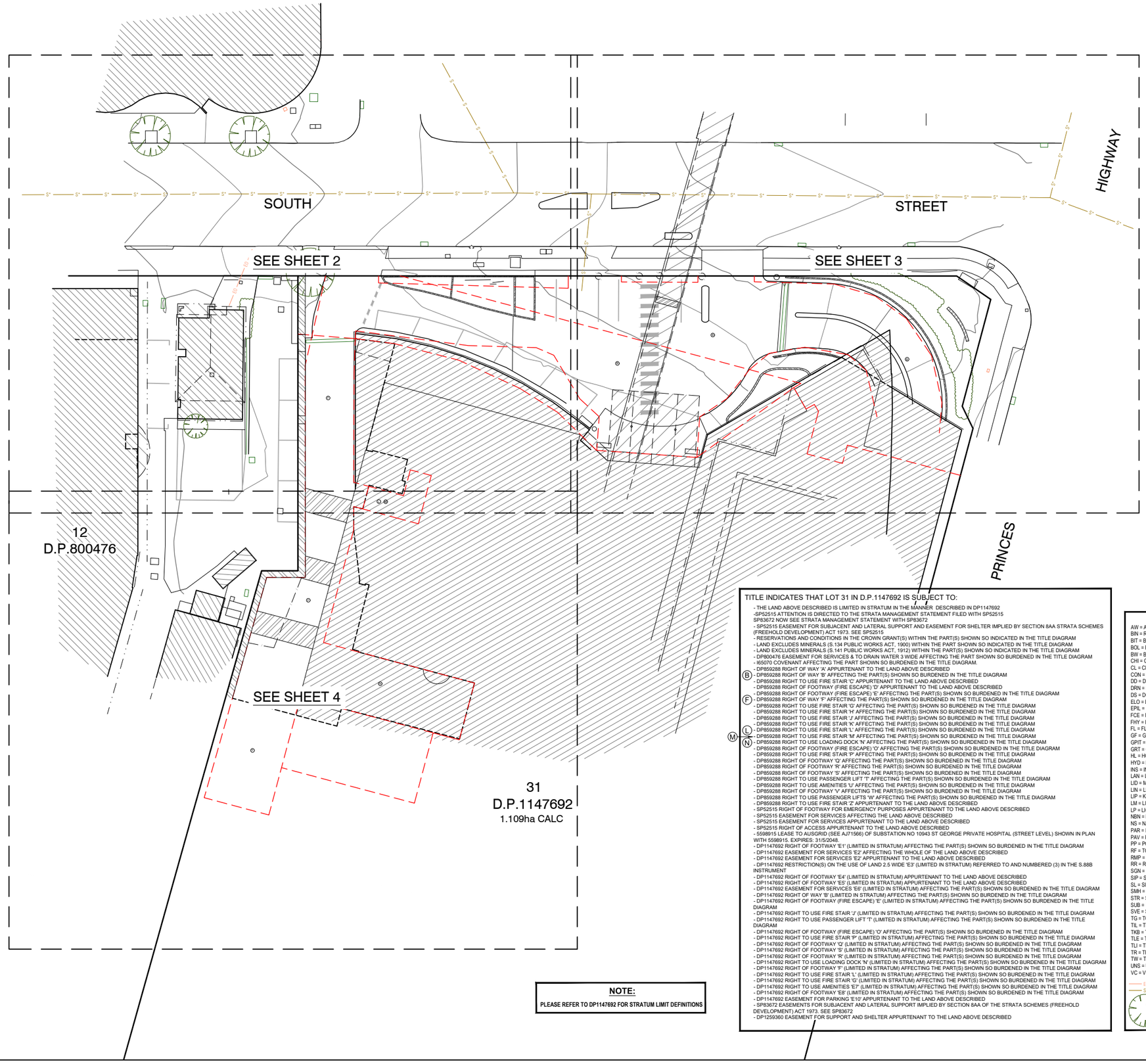
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20mm ON ORIGINAL
APPROVED BY JF
PRINT DATE 10/20/2025
PROJECT NORTH

DRAWING
EXISTING: SITE A - SOUTH ST
SCOPE OF WORKS

PROJECT NUMBER
22505

DRAWING NUMBER
DA - 2201
ISSUE
G

A1



ABOUT 1°00'

APPROX. TRUE NORTH
MGA NORTH (PLAN)

NOTE:

PLEASE REFER TO DP1147692 FOR STRATUM LIMIT DEFINITIONS

TITLE INDICATES THAT LOT 31 IN D.P.1147692 IS SUBJECT TO:

- THE LAND ABOVE DESCRIBED IS LIMITED IN STRATUM IN THE MANNER DESCRIBED IN DP1147692
- SP52515 ATTENTION IS DIRECTED TO THE STRATA MANAGEMENT STATEMENT FILED WITH SP52515
- SP83672 NOW SEE STRATA MANAGEMENT STATEMENT WITH SP83672
- SP52515 EASEMENT FOR SUBJACENT AND LATERAL SUPPORT AND EASEMENT FOR SHELTER IMPLIED BY SECTION 8AA STRATA SCHEMES (FREEHOLD DEVELOPMENT) ACT 1973. SEE SP52515
- RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S) WITHIN THE PART(S) SHOWN SO INDICATED IN THE TITLE DIAGRAM
- LAND EXCLUDES MINERALS (S.134 PUBLIC WORKS ACT, 1900) WITHIN THE PART SHOWN SO INDICATED IN THE TITLE DIAGRAM
- LAND EXCLUDES MINERALS (S.141 PUBLIC WORKS ACT, 1912) WITHIN THE PART(S) SHOWN SO INDICATED IN THE TITLE DIAGRAM
- DP800476 EASEMENT FOR SERVICES & TO DRAIN WATER 3 WIDE AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM
- I650070 COVENANT AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM
- DP859288 RIGHT OF WAY 'A' APPURTENANT TO THE LAND ABOVE DESCRIBED
- (B) - DP859288 RIGHT OF WAY 'B' AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- DP859288 RIGHT TO USE FIRE STAIR 'C' APPURTENANT TO THE LAND ABOVE DESCRIBED
- DP859288 RIGHT OF FOOTWAY (FIRE ESCAPE) 'D' APPURTENANT TO THE LAND ABOVE DESCRIBED
- DP859288 RIGHT OF FOOTWAY (FIRE ESCAPE) 'E' AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- (F) - DP859288 RIGHT OF WAY 'F' AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- DP859288 RIGHT TO USE FIRE STAIR 'G' AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- DP859288 RIGHT TO USE FIRE STAIR 'H' AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- DP859288 RIGHT TO USE FIRE STAIR 'J' AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- DP859288 RIGHT TO USE FIRE STAIR 'K' AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- (L) - DP859288 RIGHT TO USE FIRE STAIR 'L' AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- (M) - DP859288 RIGHT TO USE FIRE STAIR 'M' AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- (N) - DP859288 RIGHT TO USE LOADING DOCK 'N' AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- DP859288 RIGHT OF FOOTWAY (FIRE ESCAPE) 'O' AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- DP859288 RIGHT TO USE FIRE STAIR 'P' AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- DP859288 RIGHT OF FOOTWAY 'Q' AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- DP859288 RIGHT OF FOOTWAY 'R' AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- DP859288 RIGHT OF FOOTWAY 'S' AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- DP859288 RIGHT TO USE PASSENGER LIFT 'T' AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- DP859288 RIGHT TO USE AMENITIES 'U' AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- DP859288 RIGHT OF FOOTWAY 'V' AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- DP859288 RIGHT TO USE PASSENGER LIFTS 'W' AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- DP859288 RIGHT TO USE FIRE STAIR 'Z' APPURTENANT TO THE LAND ABOVE DESCRIBED
- SP52515 RIGHT OF FOOTWAY FOR EMERGENCY PURPOSES APPURTENANT TO THE LAND ABOVE DESCRIBED
- SP52515 EASEMENT FOR SERVICES AFFECTING THE LAND ABOVE DESCRIBED
- SP52515 EASEMENT FOR SERVICES APPURTENANT TO THE LAND ABOVE DESCRIBED
- SP52515 RIGHT OF ACCESS APPURTENANT TO THE LAND ABOVE DESCRIBED
- 5598915 LEASE TO AUSGRID (SEE AJ71566) OF SUBSTATION NO 10943 ST GEORGE PRIVATE HOSPITAL (STREET LEVEL) SHOWN IN PLAN WITH 5598915. EXPIRES: 31/5/2048.
- DP1147692 RIGHT OF FOOTWAY 'E1' (LIMITED IN STRATUM) AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- DP1147692 EASEMENT FOR SERVICES 'E2' AFFECTING THE WHOLE OF THE LAND ABOVE DESCRIBED
- DP1147692 EASEMENT FOR SERVICES 'E2' APPURTENANT TO THE LAND ABOVE DESCRIBED
- DP1147692 RESTRICTION(S) ON THE USE OF LAND 2.5 WIDE 'E3' (LIMITED IN STRATUM) REFERRED TO AND NUMBERED (3) IN THE S.88B INSTRUMENT
- DP1147692 RIGHT OF FOOTWAY 'E4' (LIMITED IN STRATUM) APPURTENANT TO THE LAND ABOVE DESCRIBED
- DP1147692 RIGHT OF FOOTWAY 'E5' (LIMITED IN STRATUM) APPURTENANT TO THE LAND ABOVE DESCRIBED
- DP1147692 EASEMENT FOR SERVICES 'E6' (LIMITED IN STRATUM) AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- DP1147692 RIGHT OF WAY 'B' (LIMITED IN STRATUM) AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- DP1147692 RIGHT OF FOOTWAY (FIRE ESCAPE) 'E' (LIMITED IN STRATUM) AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- DP1147692 RIGHT TO USE FIRE STAIR 'J' (LIMITED IN STRATUM) AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- DP1147692 RIGHT TO USE PASSENGER LIFT 'T' (LIMITED IN STRATUM) AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- DP1147692 RIGHT OF FOOTWAY (FIRE ESCAPE) 'O' AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- DP1147692 RIGHT TO USE FIRE STAIR 'P' (LIMITED IN STRATUM) AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
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- DP1147692 RIGHT TO USE LOADING DOCK 'N' (LIMITED IN STRATUM) AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- DP1147692 RIGHT OF FOOTWAY 'F' (LIMITED IN STRATUM) AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- DP1147692 RIGHT TO USE FIRE STAIR 'L' (LIMITED IN STRATUM) AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- DP1147692 RIGHT TO USE FIRE STAIR 'G' (LIMITED IN STRATUM) AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- DP1147692 RIGHT TO USE AMENITIES 'E7' (LIMITED IN STRATUM) AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- DP1147692 RIGHT OF FOOTWAY 'E8' (LIMITED IN STRATUM) AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- DP1147692 EASEMENT FOR PARKING 'E10' APPURTENANT TO THE LAND ABOVE DESCRIBED
- SP83672 EASEMENTS FOR SUBJACENT AND LATERAL SUPPORT IMPLIED BY SECTION 8AA OF THE STRATA SCHEMES (FREEHOLD DEVELOPMENT) ACT 1973. SEE SP83672
- DP1259360 EASEMENT FOR SUPPORT AND SHELTER APPURTENANT TO THE LAND ABOVE DESCRIBED

LEGEND:

AW = AWNING
BIN = RUBBISH BIN
BIT = BITUMEN
BOL = BOLLARD
BW = BOTTOM WALL
CHI = CHIMNEY
CL = CENTRELINE
CON = CONCRETE
DD = DISH DRAIN
DRN = DRAIN
DS = DOOR SILL LEVEL
ELO = ELECTRICITY LINE OVERHEAD
EPIL = ELECTRICITY PILLAR
FCE = FENCE
FHY = FIRE HYDRANT
FL = FLOOR LEVEL
GF = GUTTER LEVEL
GPIT = GAS PIT
GRT = GRATE
HL = HOOD LEVEL
HYD = HYDRANT
INS = INSPECTION PIT
LAN = LANDING
LID = MISCELLANEOUS PIT LID
LIN = LINTEL
LIP = KERB LIP
LM = LINE MARKING
LP = LIGHT POLE
NBN = NBN PIT
NS = NATURAL SURFACE
PAR = PARAPET
PAV = PAVING
PP = POWER POLE
RF = TOP OF ROOF
RMP = RAMP
RR = ROOF RIDGE
SGN = SIGN
SIP = SEWER INSPECTION PIT
SL = SILL LEVEL
SMH = SEWER MAN HOLE
STR = STAIRS
SUB = ELECTRICITY SUBSTATION
SVE = SEWER VENT
TG = TOP OF GUTTER
TIL = TILE
TKB = TOP OF KERB
TLE = TREE LINE
TLI = TRAFFIC LIGHT
TR = TREE
TW = TOP OF WALL
UNS = UNDERSIDE LEVEL
VC = VEHICLE CROSSING

ED = ELECTRICITY OVERHEAD
S = SEWER UNDERGROUND

TREE
SPREAD-DIAMETER-HEIGHT
M = MULTIPLE TRUNKS

NOTES:

- **BOUNDARY IDENTIFICATION HAS BEEN UNDERTAKEN.**
- **WALL TO BOUNDARY DIMENSIONS SHOWN HEREON MUST NOT BE USED FOR CONSTRUCTION.**
- **IF CONSTRUCTION IS INTENDED TO BE UNDERTAKEN ON OR ADJACENT TO PROPERTY BOUNDARIES THE BOUNDARIES OF THE LAND MUST BE MARKED OR THE BUILDING SETOUT.**
- **THIS SURVEY IS FOR DESIGN PURPOSES OF THE SUBJECT LAND ONLY. THIS PLAN MUST NOT BE USED FOR ANY OTHER MATTER, PURPOSE OR CONSTRUCTION SETOUT.**
- TREE SIZES ARE ESTIMATES ONLY.
- THIS PLAN HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF RAMSAY HEALTHCARE LIMITED C/O - AKALAN PROJECTS PTY LTD.
- RELATIONSHIP OF IMPROVEMENTS TO BOUNDARIES IS DIAGRAMMATIC ONLY. WHERE OFFSETS ARE CRITICAL THEY SHOULD BE CONFIRMED BY FURTHER SURVEY.
- EXCEPT WHERE SHOWN BY DIMENSION LOCATION OF DETAIL WITH RESPECT TO BOUNDARIES IS INDICATIVE ONLY.
- ONLY VISIBLE SERVICES HAVE BEEN LOCATED. UNDERGROUND SERVICES HAVE NOT BEEN LOCATED. BEFORE YOU DIG AUSTRALIA (www.byda.com.au) SHOULD BE USED AND A FULL UTILITY INVESTIGATION, INCLUDING A UTILITY LOCATION SURVEY, SHOULD BE UNDERTAKEN BEFORE CARRYING OUT ANY CONSTRUCTION ACTIVITY IN OR NEAR THE SURVEYED AREA.
- SEWER MAIN PLOTTED FROM SYDNEY WATER SEWER DIAGRAM. LOCATION SHOULD BE MARKED ON SITE IF CRITICAL.
- CRITICAL SPOT LEVELS SHOULD BE CONFIRMED WITH SURVEYOR.
- CONTOURS SHOWN DEPICT THE TOPOGRAPHY. THEY DO NOT REPRESENT THE EXACT LEVEL AT ANY PARTICULAR POINT. ONLY SPOT LEVELS SHOULD BE USED FOR CALCULATIONS OF QUANTITIES WITH CAUTION.
- CONTOUR INTERVAL - 0.5 metre. - SPOT LEVELS SHOULD BE ADOPTED.
- POSITION OF RIDGE LINES ARE DIAGRAMMATIC ONLY (NOT TO SCALE).
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- THIS NOTICE MUST NOT BE ERASED.

MARK REID
REGISTERED SURVEYOR BOSSI NUMBER 183

1	FIRST ISSUE	29/04/2025

BEFORE YOU DIG www.byda.com.au
Zero Damage - Zero Harm

0 2.5 5 7.5 10 12.5
SCALE 1:250

HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA GDA2020
MARKS ADOPTED: SSM 25191 & DP1147692

VERTICAL DATUM:
DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 25191
R.L. 19.826 (CLASS LB)
SOURCE: S.C.I.M.S. (8/04/2025)

CLIENT:

RAMSAY HEALTHCARE LIMITED C/O - AKALAN PROJECTS PTY LTD

LGA: GEORGES RIVER

BOUNDARY IDENTIFICATION AND DETAIL & LEVEL SURVEY OVER PART OF LOT 31 IN DP1147692 & LOT 12 IN D.P.800476 No.1A SOUTH STREET KOGARAH, NSW, 2217

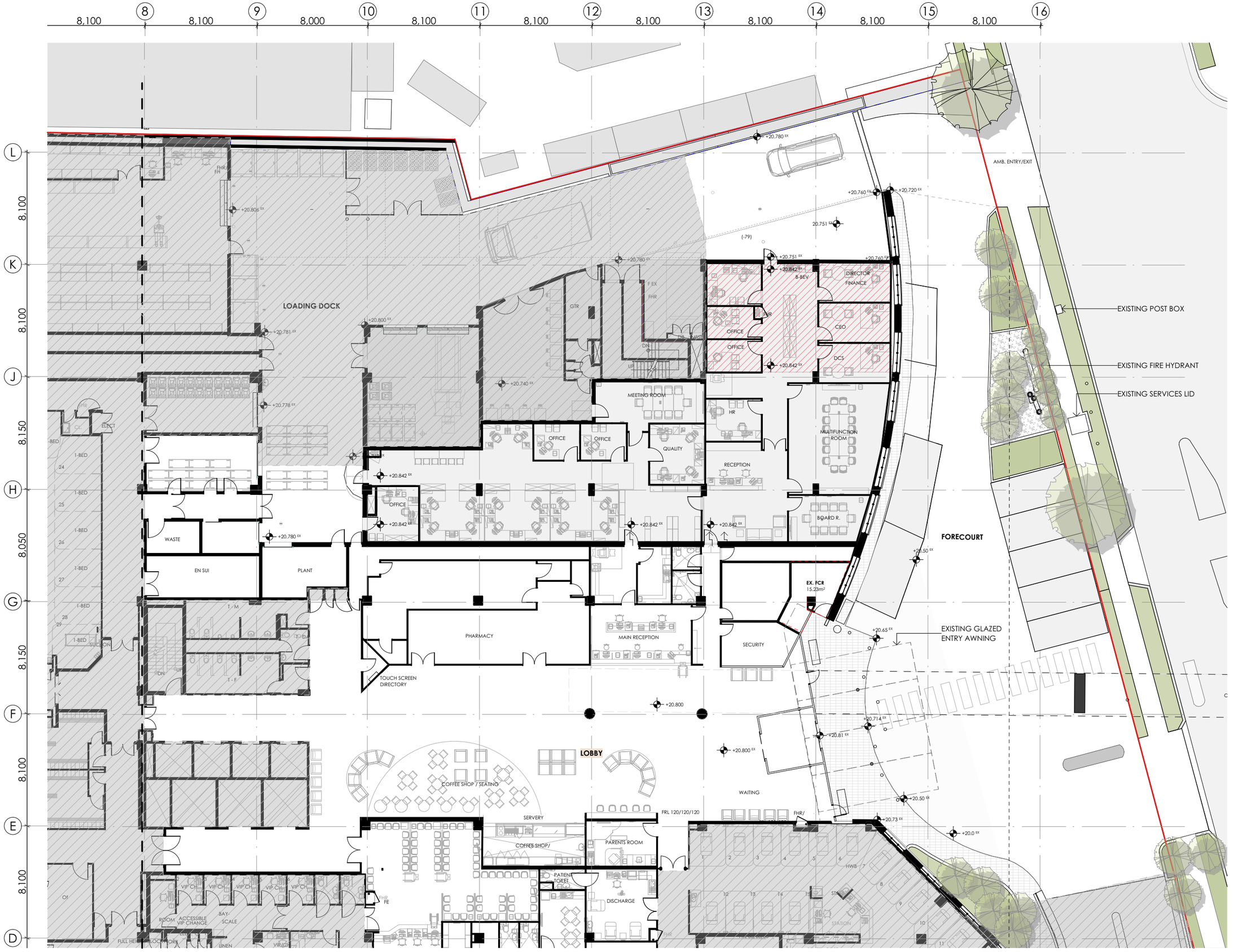
CMS SURVEYORS PTY LTD
ACN 096 240 201
PO Box 463 Dee Why, NSW, 2099
2/99A South Creek Road, Dee Why, NSW, 2099
☎ (02) 9971 4802
✉ info@cmssurveyors.com.au
www.cmssurveyors.com.au

SURVEYED	DRAWN	CHECKED	APPROVED
JM	GP	JM	RM

SURVEY INSTRUCTION	SCALE	DATE OF SURVEY
17006P	1:250@A1	9-10/04/2025

DRAWING NAME **17006Pdetail** SHEET 1 OF 4 ISSUE **1**

CAD FILE 17006Pdetail 1.dwg



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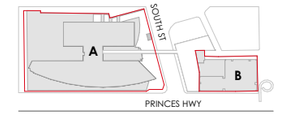
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- SITE BOUNDARY LINE
- DEMOLITION SCOPE
- DASHED OUTLINE INDICATES EXTENT OF NEW DDA-COMPLIANT WORKS
- EXISTING WALLS AND STRUCTURE
- NEW WALLS AND STRUCTURE

PROJECT
St George Private Hospital Expansion

Site A: 1 South St, Kogarah NSW 2217
Site B: 119-129 Princes Hwy & 2 Hogben St, Kogarah NSW 2217

Located on Bidjigal Country

PHASE DESIGN DEVELOPMENT - SSDA

PROJECT MANAGER

Akalan

SCALE
1:250 @A3

20mm ON ORIGINAL

DRAWN BY
TEAM

APPROVED BY
JF

PRINT DATE
10/20/2025

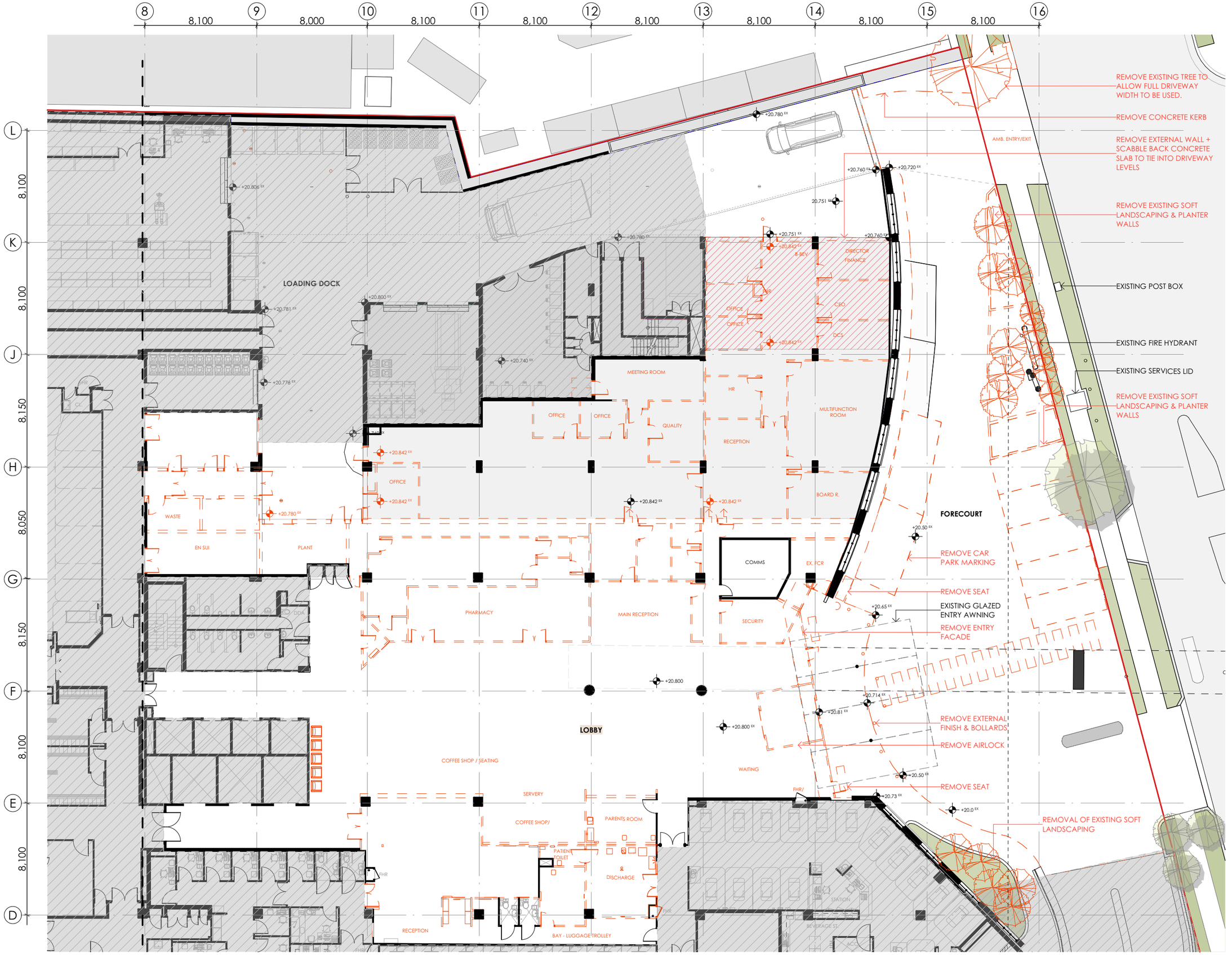
PROJECT NORTH

DRAWING
EXISTING: SITE A - SOUTH ST
EXISTING PLAN

PROJECT NUMBER
22505

DRAWING NUMBER
DA - 2203

ISSUE
G



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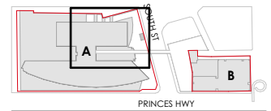
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Site B: 119-129 Princes Hwy & 2 Hogben St, Kogarah NSW 2217

Located on Bidjigal Country

PHASE DESIGN DEVELOPMENT - SSDA

PROJECT MANAGER

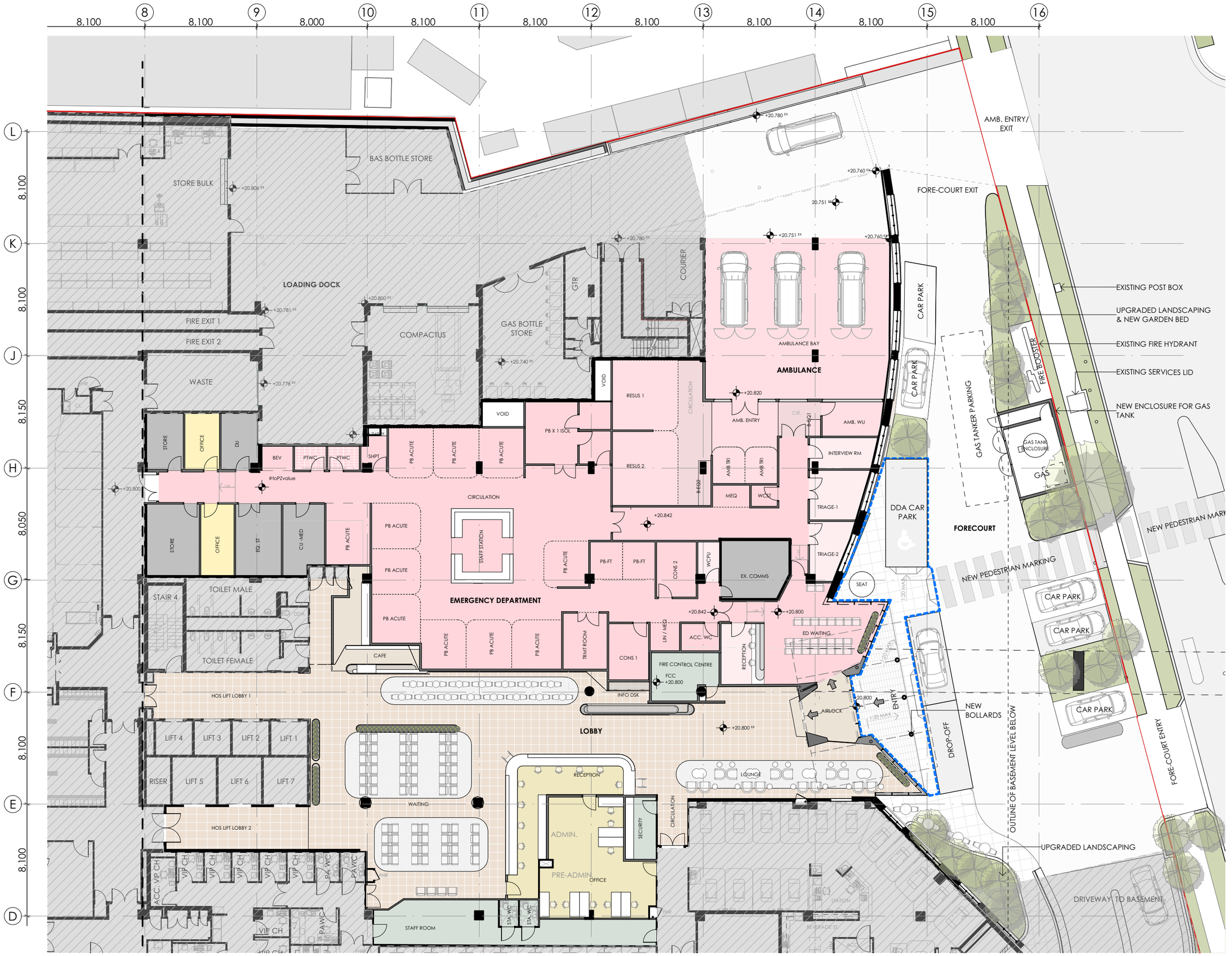
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APPROVED BY JF
PRINT DATE 10/20/2025
PROJECT NORTH

DRAWING
DEMOLITION: SITE A - SOUTH ST
DEMOLITION PLAN

PROJECT NUMBER
22505

DRAWING NUMBER
DA - 2301
ISSUE
G



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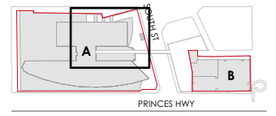
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PROJECT

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Site B: 119-129 Princes Hwy & 2 Hogben St, Kogarah NSW 2217

Located on Bidjigal Country

PHASE DESIGN DEVELOPMENT - SSDA

PROJECT MANAGER

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APPROVED BY JF

PRINT DATE 10/20/2025

PROJECT NORTH

DRAWING

GENERAL ARRANGEMENT PLAN: : SITE A - SOUTH ST

GROUND FLOOR PLAN

PROJECT NUMBER **22505**

DRAWING NUMBER **DA - 2401**

ISSUE **G**

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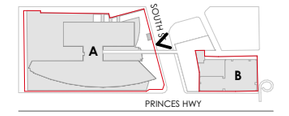
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Located on Bidjigal Country

PHASE DESIGN DEVELOPMENT - SSDA

PROJECT MANAGER

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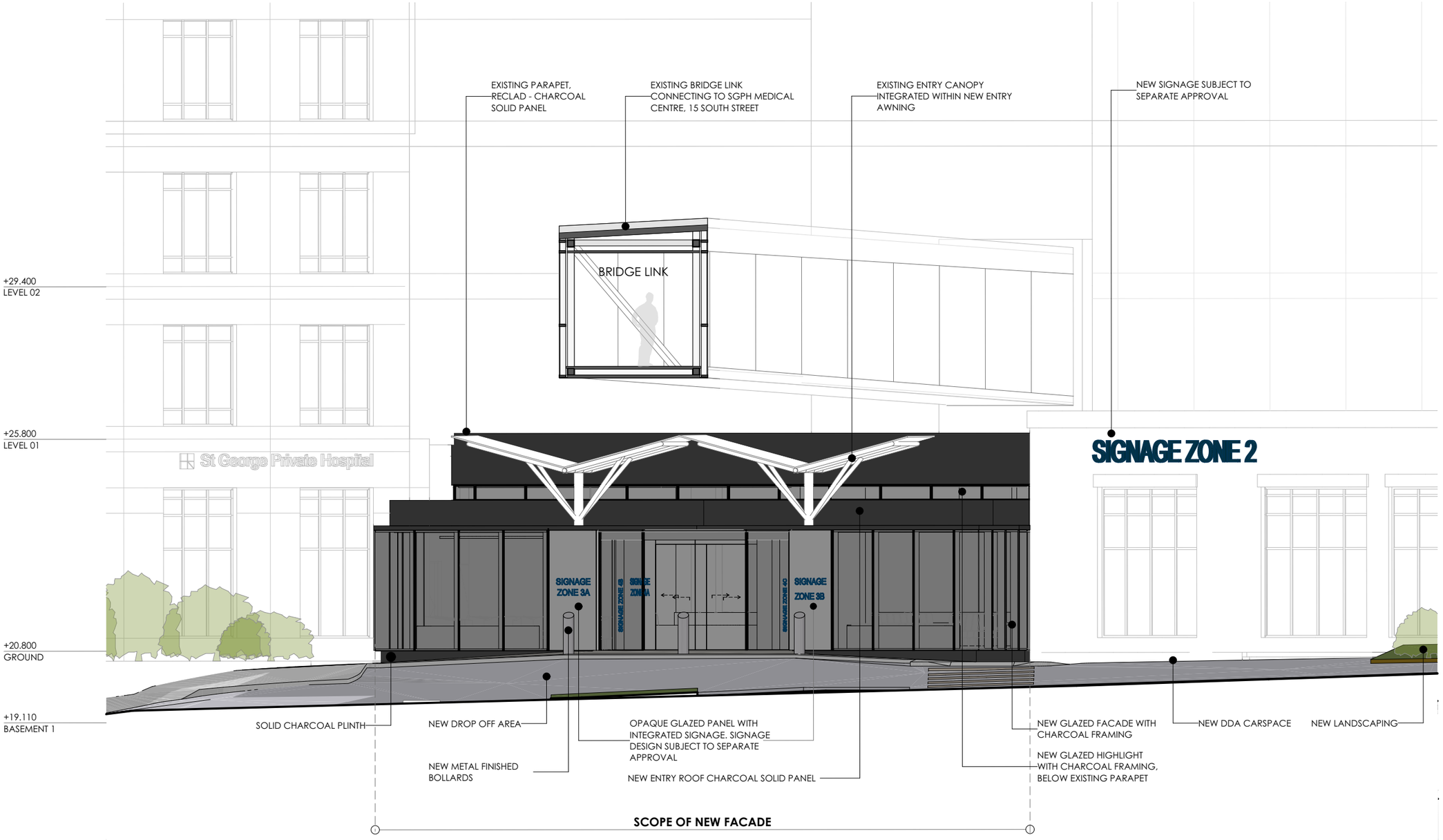
PRINT DATE 10/20/2025

DRAWING
GENERAL ARRANGEMENT ELEVATION: : SITE A - SOUTH ST
NORTH - FROM SOUTH ST

PROJECT NUMBER **22505**

DRAWING NUMBER **DA - 2501**

ISSUE **G**



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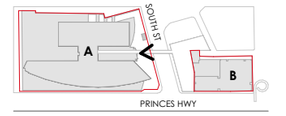
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PROJECT MANAGER

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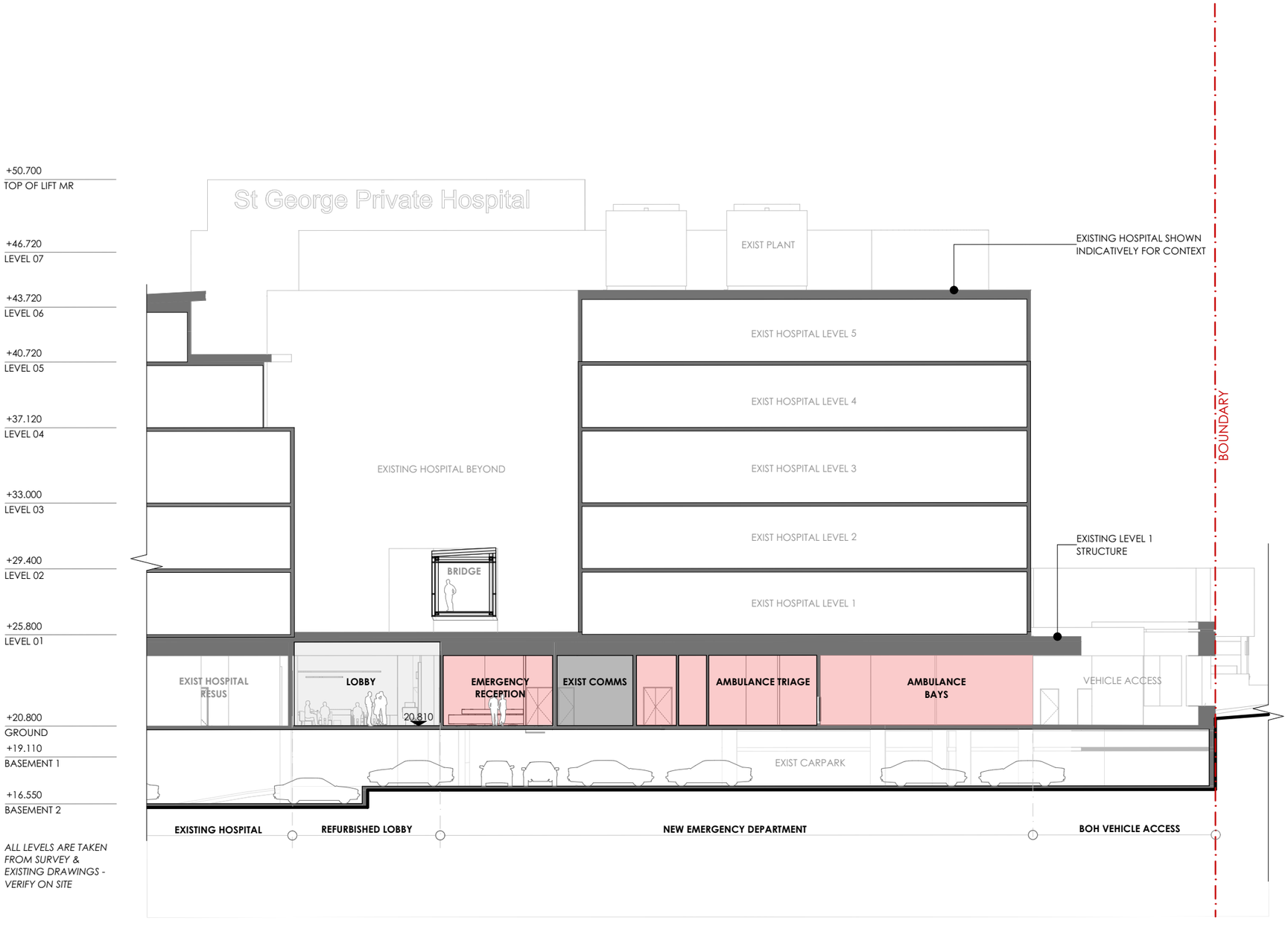
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GENERAL ARRANGEMENT ELEVATION: : SITE A - SOUTH ST
NEW ENTRY - FROM FORECOURT

PROJECT NUMBER
22505

DRAWING NUMBER
DA - 2502
ISSUE
G



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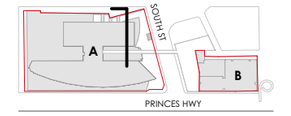
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PROJECT MANAGER

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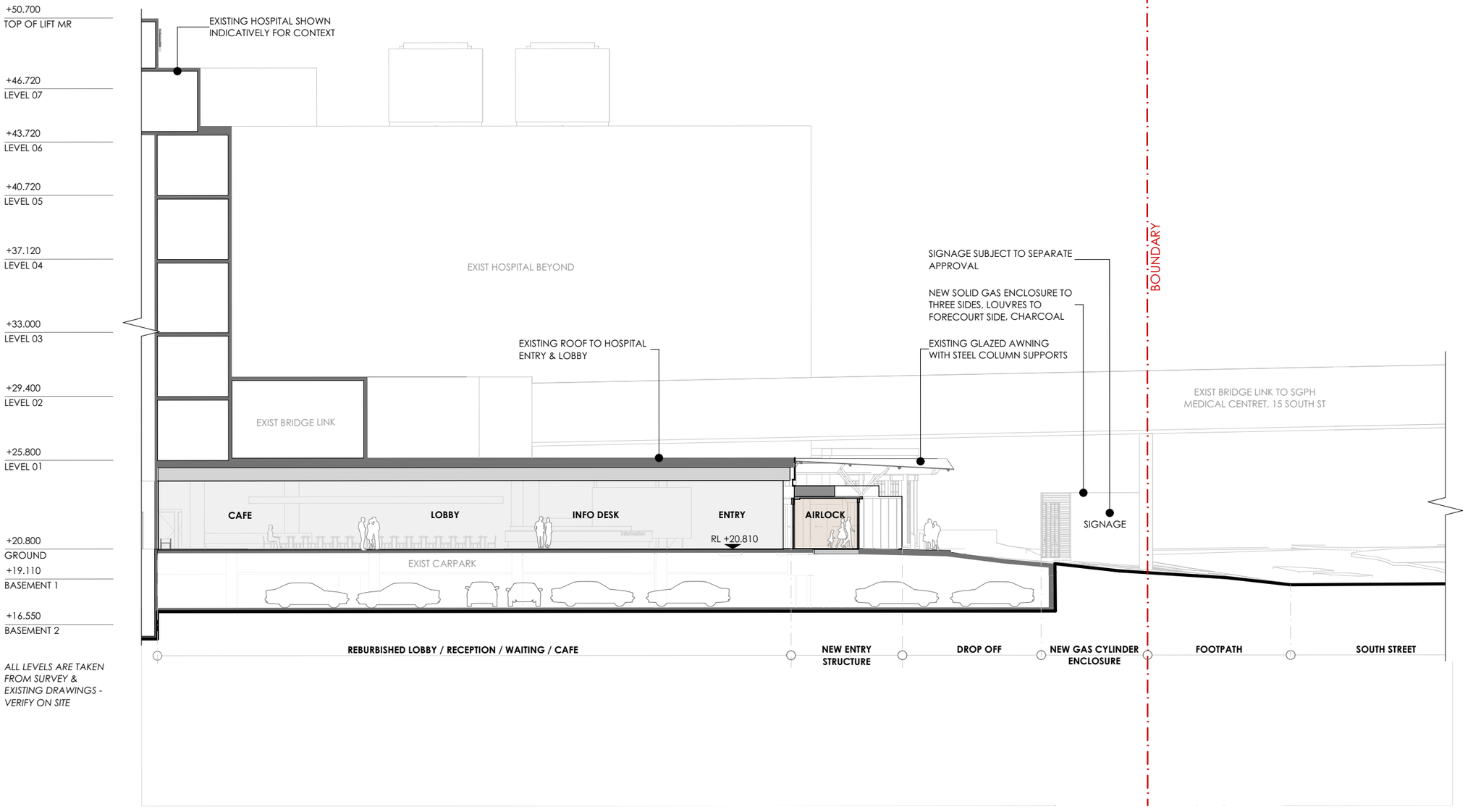
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SECTION A-A

PROJECT NUMBER **22505**

DRAWING NUMBER **DA - 2601**

ISSUE **G**



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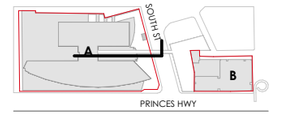
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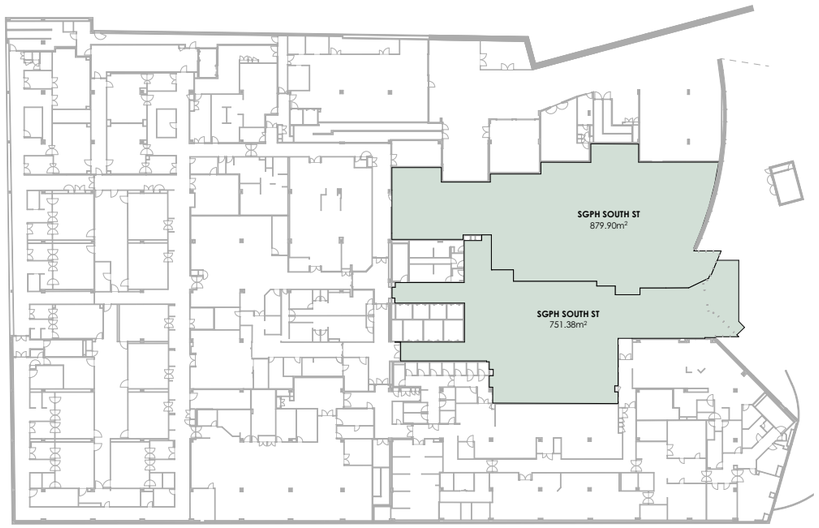
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DRAWING
GENERAL ARRANGEMENT SECTION: : SITE A - SOUTH ST
SECTION B-B

PROJECT NUMBER **22505**

DRAWING NUMBER **DA - 2602**
ISSUE **G**



1 AREA - GFA PLAN
SCALE - 1:1000

SOUTH ST SOA - GFA	
GFA	
SGPH SOUTH ST	1,631.28
	1,631.28 m²

2 AREA - SOA - GFA
SCALE -

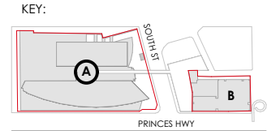
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PROJECT MANAGER

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SCALE 1:1000 @A3
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PRINT DATE 10/20/2025

PROJECT NORTH

DRAWING
AREA SCHEDULE: SITE A - SOUTH ST
AREA SCHEDULES | SOUTH ST

PROJECT NUMBER
22505

DRAWING NUMBER **DA - 2901**
ISSUE **G**

APPENDIX C: DANGEROUS GOODS SEARCH & GPR REPORT

Paulsen, Jessica

From: Licensing <licensing@safework.nsw.gov.au>
Sent: 01 September 2025 12:43
To: Everingham, Ben
Subject: SafeWork NSW: 01112935 –Site Search application – Result not found [thread::EMdBlMgMeT-TkdGXCB5hPnw::]

⚠ **CAUTION:** This email originated from an external sender. Verify the source before opening links or attachments. ⚠

Security Classification: Sensitive Personal
Please do not amend the subject line of this email

Dear Benjamin

Re: Site Search for Schedule 11 Hazardous Chemicals on premises Application – Result not found

I refer to your application for a Site Search for Schedule 11 Hazardous Chemicals on premises, received by SafeWork NSW on 28/07/2025 for the following site: 119 (Lot 1 to 5 DP8864; Lot A to C DP358876) Princes Highway Kogarah NSW 2217.

A search of the records held by SafeWork NSW has not located any records pertaining to the above-mentioned premises.

If you have any questions, please contact SafeWork NSW using one of the following options, quoting the SafeWork NSW enquiry reference number 01112935:

- Email: licensing@safework.nsw.gov.au
- Phone: 13 10 50

Kind regards

Dani Wilson-Thomas
Licensing Representative | SafeWork Licensing

SafeWork NSW

T 13 10 50 **E** licensing@safework.nsw.gov.au

safework.nsw.gov.au

92-100 Donnison Street
Gosford, NSW 2250

I acknowledge the Traditional Custodians of the land and pay respects to Elders past and present. I also acknowledge all the Aboriginal and Torres Strait Islander staff working with NSW Government at this time.

thread::EMdBlMgMeT-TkdGXCB5hPnw::

Smartscan Locators Pty Ltd

ABN: 84 622 814 813
admin@sslocators.com.au



Site Report

Smartscan Rep
Nathan Prociuk

Date
07/08/2025

Client Company
Coffey

Client Name
Benjamin Evering

Site Address
2 Hogben Street (Car Park (Princess Highway) - Kogarah

Description of Work Required
Kogarah for a site wide GPR scan. There is a potential based on historic uses for unidentified USTs, drainage systems etc which we are hoping to identify

Description of Work Completed
Completed visual site inspection
Completed review of available plans
Completed EMI tracing
Completed induction scans
Completed passive scans
Completed EMI scans
Completed GPR scans
Completed QL-C/QL-D mark up of services not able to be traced with EMI methods
Completed walkthrough with client representative onsite
Hand excavation or NDD recommended if works are planned within 1m of a marked service
No internal service drawings or plans provided
No UST indicated or detected with GPR sweeps
Small possibility that UST is under parked car but unable to confirm complete lack of UST without all access to GPR entire site unobstructed
Stormwater traced
Electrical lighting feeds and empty conduit traced
Unidentified pipeline crossing site detected with GPR at an indicated depth of 600mm-800mm

Equipment Used
EMI Locator
Utility GPR

Method Used
Reviewed DBYD
Site Inspection

Smartscan Locators Pty Ltd

ABN: 84 622 814 813
admin@sslocators.com.au



GPR Scans
Inductive Loc.
Direct Loc.
Passive Scans

DBYD Number
50846346

Smartscan Locators Pty Ltd

ABN: 84 622 814 813
admin@sslocators.com.au



Site Markings
EOT – End of trace – Unable locate past this point due to loss of signal or end of service
UTO - Unable to lift pit
FOD - Full of debris
FOW - Full of water
MT - Empty conduits
EU - Electricity (Orange) - (414 - 11k HV)
TR - Electricity transmission (Red)
WM - Water main (Blue)
WY - Water service (Blue)
GM - Gas main (Yellow LG, MG, HPG, TG)
GY - Gas (Yellow)
SW - Storm water (Green)
SM - Sewer (purple)
TN - Telstra or Comms (White)
OU - Optic fibre (White)
TY - Telstra service (White)
RMS - RMS signal cables (Red)
UP or ? - Unknown service (Pink)

Quality Levels
Australian Standards –
AS 5488-2013 Classification of Subsurface Utility Information (SUI)
Quality Level A (QL-A)
QL-A is the positive identification and location of a service through potholing and has an absolute tolerance of +/- 50mm vertically and horizontally
Quality Level B (QL-B)
QL-B is achieved through electronic tracing and is ONLY accurate to +/- 300mm horizontally and +/- 500mm vertically
Quality Level C (QL-C)
QL-C location is derived from visible evidence of utility assets (pit lids, valves, hydrants etc) ONLY. There is NO verification that the service is directly under the visible feature, nor in a straight line.
Quality Level D (QL-D)
QL-D is an approximate location ONLY derived from DBYD drawings/ existing records and does NOT encompass any field verification involving direct measurement.

Additional Smart Scan Quality levels
Quality Level G (QL-G)
QL-G Asset located using just GPR
Quality Level P (QL-P)
QL-P Asset located using Passive mode only

Disclaimer

Smartscan Locators Pty Ltd is engaged in accordance with the following conditions.
1. The client is solely responsible for meeting duty of care and minimum clearance obligations of each Utility Provider and complying with all workplace health and safety legislation.
2. The client acknowledges that electronic detection will be carried out to the quality levels as stated per AS 5488
3. Electromagnetic Radio Frequency devices may be affected by other influences including environment conditions, Utility congestion or material of target. These utilities may be considered untraceable.
4. Our locating is to be used as a guide only and no guarantee is made for the exact location and depth of Utility. All services should be exposed by non destructive potholing methods prior to excavation.
5. Smartscan Locators does not accept liability from damage caused from reliance upon services provided and all responsibility remains with the client.

☐ **Client not on site**

Smartscan Rep Signature



Smartscan Locators Pty Ltd

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Photo 1



Description of Photo 1

QL-C Stormwater down grate then pit to pit where it leaves site from the corner pit towards highway at an invert level of 650mm (pit is full of debris and pipes aren't visible)

Photo 2



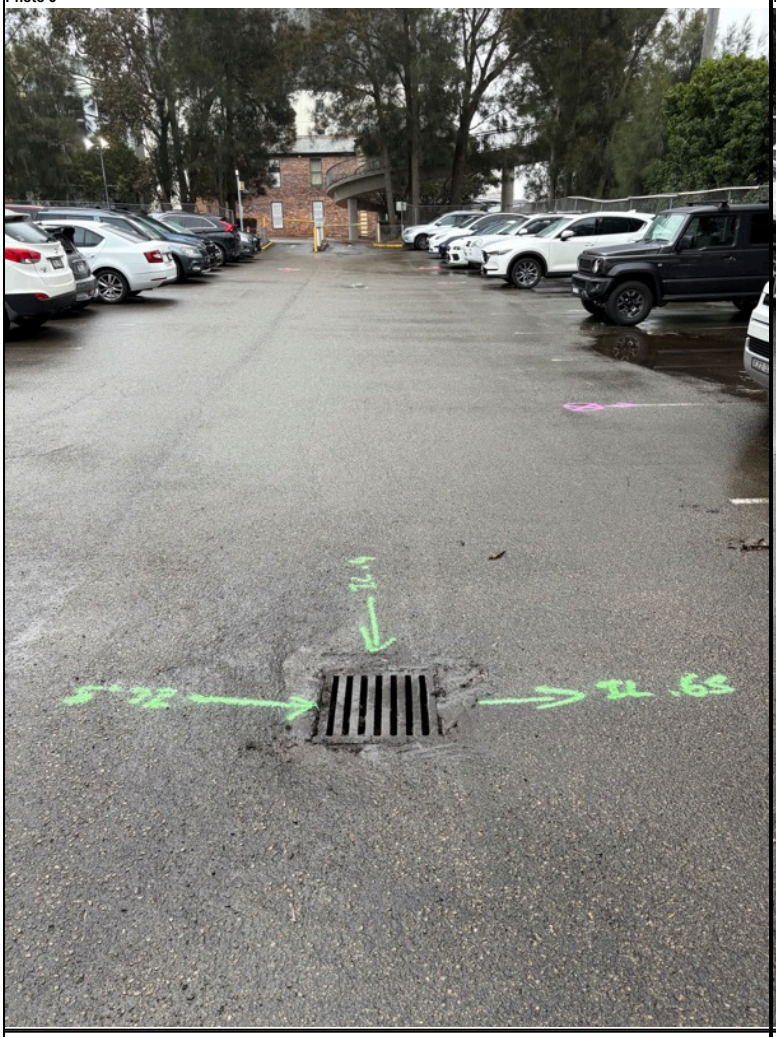
Description of Photo 2

Stormwater corner pit
Stormwater IL400mm inlet
Stormwater IL 500mm inlet
Stormwater IL650mm outlet

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Photo 3



Description of Photo 3

Stormwater corner pit
Stormwater IL400mm inlet
Stormwater IL 500mm inlet
Stormwater IL650mm outlet

Photo 4



Description of Photo 4

Stormwater 400mm outlet
Unidentified pipeline crossing site at an indicated depth of 750mm deep QL-D GPR

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Photo 5



Description of Photo 5

LV at an average indicated depth of 250mm
Empty 125mm electrical conduit at an indicated depth of 35mm

Photo 6



Description of Photo 6

Lv lighting at an average indicated depth of 200mm

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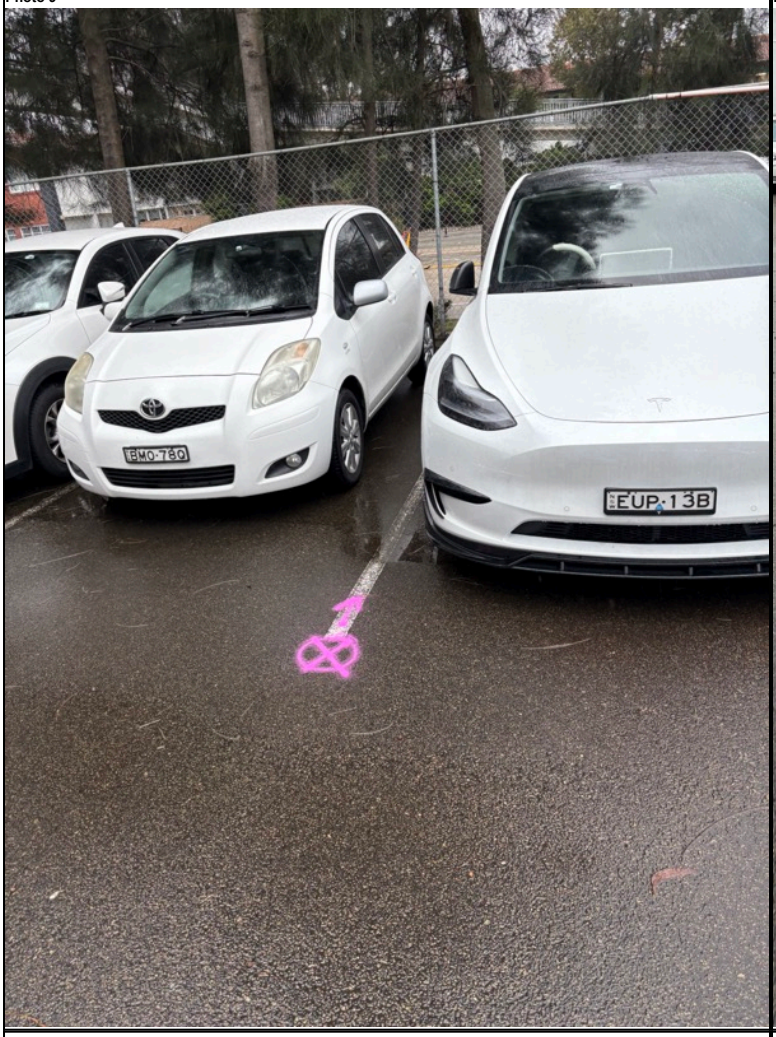
ABN: 84 622 814 813
admin@sslocators.com.au

Photo 7	Photo 8
	
Description of Photo 7 Unidentified pipeline crossing site at an indicated depth of 650mm deep GPR QL-D	**Description of Photo 8** Unidentified pipeline crossing site at an indicated depth of 700mm deep GPR QL-D

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Photo 9



Description of Photo 9

Example borehole clearance location indicated outside parked cars between them for visibility Locations free to be shifted from marks as long as 1m minimum is kept from the nearest marked service

Photo 10



Description of Photo 10

LV lighting feed at an indicated depth of 200mm

APPENDIX D: BOREHOLE LOGS (BH101-BH110 & BH01-BH03), NOTES & GROUNDWATER FIELD DATA

TETRA TECH COFFEY

Environmental Log - Borehole

Hole ID.	***BH101***
sheet:	1 of 1
project no.	***754-SYDGE381816***
client:	***Akalan Projects Pty Ltd***
date started:	***11 Aug 2025***
principal:	
date completed:	***11 Aug 2025***
project:	***St George Private Hospital***
logged by:	***SL***
location:	***Hogben Street, Kogarah NSW***
checked by:	

position: Not Specified | surface elevation: Not Specified | angle from horizontal: 90°

equipment type: | drilling fluid: | hole diameter :

drilling information						material substance					
method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description **SOIL NAME**: plasticity or particle characteristics, colour, secondary and minor components	moisture condition	consistency / relative density	soil origin, structure and additional observations
HA N	Not Observed	BH101_0.0-0.1	0.5		0.0			**ASPHALT**.	D - M		**ASPHALT / ROADBASE**
		BH101_0.3-0.4	0.3					**FILL: Sandy CLAY**: pale brown, trace sandstone, gravel, brick fragments and tile fragments.			**FILL**
		BH1010_0.9-1.0	0.4		0.5			**SANDSTONE**: pale brown, weathered.	D - M		**NATURAL**
					1.0			Borehole BH101 terminated at 1.30 m Refusal			
					1.5						
					2.0						
					2.5						
					3.0						
					3.5						

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method
- AD auger drilling*
- HA hand auger
- MR mud rotary
- W washbore
- PT push tube
- HS hollow stem
- SS solid stem
- SD sonic drilling
- * bit shown by suffix e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nill

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- WS water sample
- HB hammer bouncing
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- R refusal

soil group symbol & material description
based on AS 1726:2017

moisture condition
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

TETRA TECH COFFEY

Environmental Log - Borehole

Hole ID.	***BH102***
sheet:	1 of 1
project no.	***754-SYDGE381816***
client:	***Akalan Projects Pty Ltd***
date started:	***11 Aug 2025***
principal:	
date completed:	***11 Aug 2025***
project:	***St George Private Hospital***
logged by:	***SL***
location:	***Hogben Street, Kogarah NSW***
checked by:	

position: Not Specified | surface elevation: Not Specified | angle from horizontal: 90°

equipment type: | drilling fluid: | hole diameter :

drilling information						material substance					
method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description **SOIL NAME**: plasticity or particle characteristics, colour, secondary and minor components	moisture condition	consistency / relative density	soil origin, structure and additional observations
HA N	Not Observed	BH102_0.0-0.1	0.6					**ASPHALT**.	D - M		**ASPHALT / ROADBASE**
								FILL: Sandy CLAY: pale brown, with sandstone, root fibre, gravel, brick fragments.			**FILL**
		BH102_0.4-0.5	0.8					**CONCRETE**: 100 mm thickness.			block of concrete in fill
					0.5			**FILL: Sandy CLAY**: pale brown, with sandstone, root fibre, gravel, brick fragments.	D - M		
								Sandy CLAY: pale brown.	M		**RESIDUAL**
					1.0			**SANDSTONE**: weathered rock.			
								Borehole BH102 terminated at 1.10 m Refusal			
					1.5						
					2.0						
					2.5						
					3.0						
					3.5						

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method
- AD auger drilling*
- HA hand auger
- MR mud rotary
- W washbore
- PT push tube
- HS hollow stem
- SS solid stem
- SD sonic drilling
- * bit shown by suffix e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nill

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- WS water sample
- HB hammer bouncing
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- R refusal

soil group symbol & material description
based on AS 1726:2017

moisture condition
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

TETRA TECH COFFEY

Environmental Log - Borehole

Hole ID.	***BH103***
sheet:	1 of 1
project no.	***754-SYDGE381816***
client:	***Akalan Projects Pty Ltd***
date started:	***11 Aug 2025***
principal:	
date completed:	***11 Aug 2025***
project:	***St George Private Hospital***
logged by:	***SL***
location:	***Hogben Street, Kogarah NSW***
checked by:	

position: Not Specified | surface elevation: Not Specified | angle from horizontal: 90°

equipment type: | drilling fluid: | hole diameter :

drilling information | **material substance**

method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description (SOIL NAME: plasticity or particle characteristics, colour, secondary and minor components)	moisture condition	consistency / relative density	soil origin, structure and additional observations
HA, N	Not Observed	BH103_0.0-0.2	0.6					**ASPHALT**.	D - M		**ASPHALT / ROADBASE**
								FILL: Sandy CLAY: pale brown, trace gravel, brick and concrete fragments, sandstone.			**FILL**
		BH103_0.5-0.6	0.8		0.5			**FILL: Gravelly SAND**: dark grey, trace gravel.			
		BH103_0.7-0.8	0.9					**Sandy CLAY**: pale brown mottled grey.	D - M		**RESIDUAL**
								SANDSTONE: weathered rock.			
					1.0			Borehole BH103 terminated at 0.95 m Refusal			
					1.5						
					2.0						
					2.5						
					3.0						
					3.5						

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method
- AD auger drilling*
- HA hand auger
- MR mud rotary
- W washbore
- PT push tube
- HS hollow stem
- SS solid stem
- SD sonic drilling
- * bit shown by suffix e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nill

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- WS water sample
- HB hammer bouncing
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- R refusal

soil group symbol & material description
based on AS 1726:2017

moisture condition
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

TETRA TECH COFFEY

Environmental Log - Borehole

Hole ID.	***BH104***
sheet:	1 of 1
project no.	***754-SYDGE381816***
client:	***Akalan Projects Pty Ltd***
date started:	***11 Aug 2025***
principal:	
date completed:	***11 Aug 2025***
project:	***St George Private Hospital***
logged by:	***SL***
location:	***Hogben Street, Kogarah NSW***
checked by:	

position: Not Specified | surface elevation: Not Specified | angle from horizontal: 90°

equipment type: | drilling fluid: | hole diameter :

drilling information						material substance					
method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description **SOIL NAME**: plasticity or particle characteristics, colour, secondary and minor components	moisture condition	consistency / relative density	soil origin, structure and additional observations
HA N	Not Observed	BH104_0.0-0.1	0.8					**ASPHALT**.	D - M		**ASPHALT / ROADBASE**
		BH104_0.2-0.3	0.6					**FILL: Sandy CLAY**: pale brown, trace terracotta, PVC, glass, gravel, brick fragments, metal, wires, plastic.			**FILL**
		BH104_0.6-0.7	0.6		0.5			**FILL: Gravelly SAND**: dark grey, trace terracotta, PVC, glass, gravel, brick fragments, metal, wires, plastic.			
		BH104_0.8-0.9	0.7					**Sandy CLAY**: grey, dark grey.	D - M		**NATURAL**
					1.0			**Sandy CLAY**: pale brown.			
					1.5						
								Borehole BH104 terminated at 1.65 m Refusal			
					2.0						
					2.5						
					3.0						
					3.5						

method
- AD auger drilling*
- HA hand auger
- MR mud rotary
- W washbore
- PT push tube
- HS hollow stem
- SS solid stem
- SD sonic drilling
- * bit shown by suffix e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nill

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- WS water sample
- HB hammer bouncing
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- R refusal

soil group symbol & material description
based on AS 1726:2017

moisture condition
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

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TETRA TECH COFFEY

Environmental Log - Borehole

Hole ID.	***BH105***
sheet:	1 of 1
project no.	***754-SYDGE381816***
client:	***Akalan Projects Pty Ltd***
date started:	***11 Aug 2025***
principal:	
date completed:	***11 Aug 2025***
project:	***St George Private Hospital***
logged by:	***SL***
location:	***Hogben Street, Kogarah NSW***
checked by:	

position: Not Specified | surface elevation: Not Specified | angle from horizontal: 90°

equipment type: | drilling fluid: | hole diameter :

drilling information | **material substance**

method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description (SOIL NAME: plasticity or particle characteristics, colour, secondary and minor components)	moisture condition	consistency / relative density	soil origin, structure and additional observations
HA, N	Not Observed	BH105_0.0-0.1	0.8					**ASPHALT**.	D - M		**ASPHALT / ROADBASE**
		BH105_0.2-0.3	0.7					**FILL: Sandy CLAY**: pale grey, reworked shale.			**FILL**
		BH105_0.4-0.5	0.6		0.5			**FILL: Sandy CLAY**: dark grey, reworked shale.			
		BH105_1.1-1.2			1.0			**Sandy CLAY**: pale brown.	D - M		**RESIDUAL**
					1.5			Borehole BH105 terminated at 1.50 m Refusal			
					2.0						
					2.5						
					3.0						
					3.5						

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method
- AD auger drilling*
- HA hand auger
- MR mud rotary
- W washbore
- PT push tube
- HS hollow stem
- SS solid stem
- SD sonic drilling
- * bit shown by suffix e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nill

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- WS water sample
- HB hammer bouncing
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- R refusal

soil group symbol & material description based on AS 1726:2017

moisture condition
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

TETRA TECH COFFEY

Environmental Log - Borehole

Hole ID.	***BH106***
sheet:	1 of 1
project no.	***754-SYDGE381816***
client:	***Akalan Projects Pty Ltd***
date started:	***11 Aug 2025***
principal:	
date completed:	***11 Aug 2025***
project:	***St George Private Hospital***
logged by:	***SL***
location:	***Hogben Street, Kogarah NSW***
checked by:	

position: Not Specified | surface elevation: Not Specified | angle from horizontal: 90°

equipment type: | drilling fluid: | hole diameter :

drilling information | **material substance**

method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description (SOIL NAME: plasticity or particle characteristics, colour, secondary and minor components)	moisture condition	consistency / relative density	soil origin, structure and additional observations
HA / N	Not Observed	BH106_0.0-0.1	0.6					**ASPHALT**.	D - M		**ASPHALT / ROADBASE**
		BH106_0.2-0.3 (DUP/TRIP)	0.8					**FILL: Sandy CLAY**: dark brown, trace tile, metal, gravel, rock.			**FILL**
		BH106_0.4-0.5	1.4					**FILL: Gravelly SAND**: rocks, trace sandstone.			
		BH106_0.5-0.6	1.4		0.5			**FILL: Sandy CLAY**: dark brown, trace sandstone.			
		BH106_0.6-0.7	0.9					**FILL: Sandy CLAY**: brown grey, sandstone.			
		BH106_1.2-1.3			1.0						
			1.2					Borehole BH106 terminated at 1.20 m Refusal			

1.5 2.0 2.5 3.0 3.5

method

AD	auger drilling*
HA	hand auger
MR	mud rotary
W	washbore
PT	push tube
HS	hollow stem
SS	solid stem
SD	sonic drilling
*	bit shown by suffix
e.g.	AD/T
B	blank bit
T	TC bit
V	V bit

support

M	mud
C	casing
N	nill

water

10-Oct-12 water level on date shown
water inflow
water outflow

samples & field tests

B	bulk disturbed sample
D	disturbed sample
E	environmental sample
SS	split spoon sample
U##	undisturbed sample ##mm diameter
WS	water sample
HB	hammer bouncing
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
R	refusal

soil group symbol & material description based on AS 1726:2017

moisture condition

D	dry
M	moist
W	wet
Wp	plastic limit
Wl	liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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TETRA TECH COFFEY

Environmental Log - Borehole

Hole ID.	***BH107***
sheet:	1 of 1
project no.	***754-SYDGE381816***
client:	***Akalan Projects Pty Ltd***
date started:	***11 Aug 2025***
principal:	
date completed:	***11 Aug 2025***
project:	***St George Private Hospital***
logged by:	***SL***
location:	***Hogben Street, Kogarah NSW***
checked by:	

position: Not Specified | surface elevation: Not Specified | angle from horizontal: 90°

equipment type: | drilling fluid: | hole diameter :

drilling information | **material substance**

method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description (SOIL NAME: plasticity or particle characteristics, colour, secondary and minor components)	moisture condition	consistency / relative density	soil origin, structure and additional observations
HA, N	Not Observed	BH107_0.0-0.1	0.6					**ASPHALT**.	D - M		**ASPHALT / ROADBASE**
		BH107_0.2-0.3 (DUP/TRIP)	0.6					**FILL: Gravelly SAND**: with sandstone gravel, ironstone, tile fragments.			**FILL**
					0.5			**Sandy CLAY**: pale brown, trace root fibres.			
					1.0			**CL**: dark red, weathered.	D - M		**RESIDUAL**
								Borehole BH107 terminated at 1.00 m Refusal			
					1.5						
					2.0						
					2.5						
					3.0						
					3.5						

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method
- AD auger drilling*
- HA hand auger
- MR mud rotary
- W washbore
- PT push tube
- HS hollow stem
- SS solid stem
- SD sonic drilling
- * bit shown by suffix
- e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nill

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- WS water sample
- HB hammer bouncing
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- R refusal

soil group symbol & material description
based on AS 1726:2017

moisture condition
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

TETRA TECH COFFEY

Environmental Log - Borehole

Hole ID.	**BH108**
sheet:	1 of 1
project no.	**754-SYDGE381816**
client:	**Akalan Projects Pty Ltd**
date started:	**11 Aug 2025**
principal:	
date completed:	**11 Aug 2025**
project:	**St George Private Hospital**
logged by:	**SL**
location:	**Hogben Street, Kogarah NSW**
checked by:	

position: Not Specified | surface elevation: Not Specified | angle from horizontal: 90°

equipment type: | drilling fluid: | hole diameter :

drilling information						material substance					
method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description **SOIL NAME**: plasticity or particle characteristics, colour, secondary and minor components	moisture condition	consistency / relative density	soil origin, structure and additional observations
HA N	Not Observed	BH108_0.0-0.1	0.8					**ASPHALT**.			**ASPHALT / ROADBASE**
		BH108_0.1-0.2	0.9					**FILL: Sandy CLAY**: dark brown, trace gravel, brick fragments, tile fragments, terracotta.	D - M		**FILL**
								CONCRETE.			**CONCRETE SLAB**
		BH108_0.5-0.6	1.1		0.5			**FILL: Sandy CLAY**: dark brown, trace gravel, tile fragments, plastic debris, charcoal, ironstone fragments.	D - M		**FILL**
								Sandy CLAY: pale brown.	M		**RESIDUAL**
					1.0			Borehole BH108 terminated at 1.00 m Refusal			
					1.5						
					2.0						
					2.5						
					3.0						
					3.5						

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method
- AD auger drilling*
- HA hand auger
- MR mud rotary
- W washbore
- PT push tube
- HS hollow stem
- SS solid stem
- SD sonic drilling
- * bit shown by suffix e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nill

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- WS water sample
- HB hammer bouncing
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- R refusal

soil group symbol & material description
based on AS 1726:2017

moisture condition
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

TETRA TECH COFFEY

Environmental Log - Borehole

Hole ID.	***BH109***
sheet:	1 of 1
project no.	***754-SYDGE381816***
client:	***Akalan Projects Pty Ltd***
date started:	***11 Aug 2025***
principal:	
date completed:	***11 Aug 2025***
project:	***St George Private Hospital***
logged by:	***SL***
location:	***Hogben Street, Kogarah NSW***
checked by:	

position: Not Specified | surface elevation: Not Specified | angle from horizontal: 90°

equipment type: | drilling fluid: | hole diameter :

drilling information | **material substance**

method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description **SOIL NAME**: plasticity or particle characteristics, colour, secondary and minor components	moisture condition	consistency / relative density	soil origin, structure and additional observations
HA, N	Not Observed	BH109_0.0-0.1	1					**ASPHALT**.			**ASPHALT / ROADBASE**
		BH109_0.3-0.4	0.6					**FILL: Sandy CLAY**: dark brown, trace gravel, terracotta, glass, tiles, brick fragments.	D		**FILL**
					0.5			**Sandy CLAY**: pale brown, trace root fibres.	D - M		**RESIDUAL**
					1.0			**SANDSTONE**: weathered.			
								Borehole BH109 terminated at 1.00 m Refusal			
					1.5						
					2.0						
					2.5						
					3.0						
					3.5						

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method
- AD auger drilling*
- HA hand auger
- MR mud rotary
- W washbore
- PT push tube
- HS hollow stem
- SS solid stem
- SD sonic drilling
- * bit shown by suffix
- e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nill

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- WS water sample
- HB hammer bouncing
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- R refusal

soil group symbol & material description
based on AS 1726:2017

moisture condition
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

TETRA TECH COFFEY

Environmental Log - Borehole

Hole ID.	***BH110***
sheet:	1 of 1
project no.	***754-SYDGE381816***
client:	***Akalan Projects Pty Ltd***
date started:	***11 Aug 2025***
principal:	
date completed:	***11 Aug 2025***
project:	***St George Private Hospital***
logged by:	***SL***
location:	***Hogben Street, Kogarah NSW***
checked by:	

position: Not Specified | surface elevation: Not Specified | angle from horizontal: 90°

equipment type: | drilling fluid: | hole diameter :

drilling information | **material substance**

method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description **SOIL NAME**: plasticity or particle characteristics, colour, secondary and minor components	moisture condition	consistency / relative density	soil origin, structure and additional observations
HA, N	Not Observed	BH110_0.0-0.1			0.0			**ASPHALT**.			**ASPHALT / ROADBASE**
		BH110_0.3-0.4			0.5			**FILL: Sandy CLAY**: pale brown, trace tile fragment, concrete fragments, gravel.	D		**FILL**
					1.0			**Silty CLAY**: pale brown.	M		**RESIDUAL**
					1.5			**SANDSTONE**: weathered.			
								Borehole BH110 terminated at 1.50 m Refusal			
					2.0						
					2.5						
					3.0						
					3.5						

CDF_0_10_00.4_LIBRARY.GLB rev:CDF_0_10_00.4 2021-09-30 Log_COF BOREHOLE: ENVIRONMENTAL 754-SYDGE381816.GPJ <<DrawingFile>> 18/09/2025 09:37

method
- AD auger drilling*
- HA hand auger
- MR mud rotary
- W washbore
- PT push tube
- HS hollow stem
- SS solid stem
- SD sonic drilling
- * bit shown by suffix e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nill

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- WS water sample
- HB hammer bouncing
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- R refusal

soil group symbol & material description
based on AS 1726:2017

moisture condition
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

TETRA TECH COFFEY

Engineering Log - Borehole

Borehole ID.	**BH01**
sheet:	1 of 4
project no.	**754-SYDGE381816**
client:	**Ramsay Health Care Pty Ltd c/o Akalan Project Pty Ltd**
date started:	**30 Apr 2025**
principal:	
date completed:	**30 Apr 2025**
project:	**St George Private Hospital**
logged by:	**RZ/EO**
location:	**Refer to Site Plan**
checked by:	**IG**

position: E: 327,832.40; N: 6,240,107.90 (GDA2020) | surface elevation: 21.09 m (AHD) | angle from horizontal: 90°

drill model: D-4T, Truck mounted | drilling fluid: Water | hole diameter : 52/120

drilling information | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	RL (m)	depth (m)	graphic log	soil group symbol	material description (SOIL NAME: plasticity or particle characteristics, colour, secondary and minor components)	moisture condition	consistency / relative density	hand penetrometer (kPa) 100 200 300 400	soil origin, structure and additional observations
HA, C, AD/V		Not Observed	D	21	0.0			**ASPHALT CONCRETE**.	D			**FILL**
							SP	**FILL: Gravelly SAND**: fine to medium grained, brown-grey mottled red and pale grey, fine to medium grained, sub-angular to angular gravel, trace glass fragments.				
				20	1.0			**SAND**: fine to medium grained, brown to pale brown-grey. 1.0 m: becoming pale grey 1.2 m: becoming orange brown				**EXTREMELY WEATHERED MATERIAL** No SPT conducted due to shallow bedrock
								Borehole BH01 continued as cored hole				
				19	2.0							
				18	3.0							
				17	4.0							
				16	5.0							
				15	6.0							
				14	7.0							

CDF_0_10_00.4_LIBRARY 1.GLB rev:CDF_0_10_00.4 2021-09-30 Log COF BOREHOLE: NON CORED SGPH_GINT_16.06.2025.GPJ <<DrawingFile>> 03/09/2025 13:32

method
DT diatube
AD auger drilling*
AS auger screwing*
HA hand auger
W washbore
RR rock roller

* bit shown by suffix
e.g. AD/T
B blank bit
T TC bit
V V bit

support
M mud
C casing
N nil

penetration
1 2 3 no resistance ranging to refusal

water
10-Oct-12 water level on date shown
water inflow
water outflow

samples & field tests
B bulk disturbed sample
D disturbed sample
E environmental sample
SS split spoon sample
U## undisturbed sample ##mm diameter
HP hand penetrometer (kPa)
N standard penetration test (SPT)
N* SPT - sample recovered
Nc SPT with solid cone
VS vane shear; peak/remoulded (kPa)
R refusal
HB hammer bouncing

soil group symbol & material description
based on AS 1726:2017

moisture condition
D dry
M moist
W wet
Wp plastic limit
Wl liquid limit

consistency / relative density
VS very soft
S soft
F firm
St stiff
VSt very stiff
H hard
Fb friable
VL very loose
L loose
MD medium dense
D dense
VD very dense

TETRA TECH COFFEY

Engineering Log - Cored Borehole

Borehole ID.	**BH01**
sheet:	2 of 4
project no.	**754-SYDGE381816**
client:	**Ramsay Health Care Pty Ltd c/o Akalan Project Pty Ltd**
date started:	**30 Apr 2025**
principal:	
date completed:	**30 Apr 2025**
project:	**St George Private Hospital**
logged by:	**RZ/EO**
location:	**Refer to Site Plan**
checked by:	**IG**

position: E: 327,832.40; N: 6,240,107.90 (GDA2020) | surface elevation: 21.09 m (AHD) | angle from horizontal: 90°

drill model: D-4T, Truck mounted | drilling fluid: Water | hole diameter : 52/120

drilling information | **material substance** | **rock mass defects**

method & support	water	RL (m)	depth (m)	graphic log	material description **ROCK TYPE**: grain characterisics, colour, structure, minor components	weathering & alteration	estimated strength & Is50 (X = axial; O = diametral) VL L M H VH EH	samples, field tests & Is(50) (MPa) a = axial; d = diametral	core run & RQD	defect spacing (mm) 30 100 300 1000 3000	additional observations and defect descriptions (type, inclination, planarity, roughness, coating, thickness, other) particular / general
		21									
		20	1.0		started coring at 1.36m						
NMLC	Not Observed	19	2.0		**CLAYEY SAND**: fine to medium grained, pale grey mottled orange-brown and red.	RS					PT, 5°, PL, RO, Fe SN - Clay VN
					SANDSTONE: medium to coarse grained, red-brown and pale grey.	MW RS					PT, 5 - 10°, UN, RO, CN PT, 5°, PL, RO, Fe SN
					Silty CLAY: high plasticity, pale grey mottled dark grey, with bands of siltstone up to 50 mm. 2.30 to 2.40 m: becoming pale grey mottled dark grey and red				0%		
		18	3.0		**SILTSTONE**: dark grey, banded orange-brown, distinctly laminated at 5° to 10°.	HW					**CLASS IV HAWKESBURY SANDSTONE** Fracture zone, 30 mm SM, Clay, 70 mm PT, 5°, PL, RO, Fe SN PT, 10°, PL, RO, Fe SN JT, 40 - 85°, ST, RO, Fe SN - Clay PT, 15°, PL, RO, Fe SN SM, Clay, 35 mm SM, Clay, 35 mm PT, 15°, PL, RO, Fe healed
					SANDSTONE: medium to coarse grained, dark red-brown and orange-brown.						
		17	4.0		**SANDSTONE**: medium to coarse grained, dark red and orange-brown. 4.49 m: singular siltstone lamina	MW		d=0.42 a=0.63	84%		**CLASS III/II HAWKESBURY SANDSTONE** PT, 20°, PL, RO, Fe SN SM, Clay, 5 mm
		16	5.0		**SANDSTONE**: medium to coarse grained, pale grey, banded orange-brown grading to pale grey, indistinctly cross bedded at 5° - 10°. 5.12 m: no orange-brown bands	SW		d=0.67 a=0.55			PT, 5°, PL, RO, Fe SN PTx4, 5 - 10°, PL, Fe healed
						FR		d=0.87 a=1.08			SM, Clay, 5 mm
	14/05/25	15	6.0								
		14	7.0		7.46 to 7.50 m: with siltstone laminae			d=0.86 a=0.67	99%		PT, 10°, PL, RO, CN
								d=0.88			

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method
DT diatube
NMLC NMLC core (51.9 mm)
NQ wireline core (47.6mm)
HQ wireline core (63.5mm)
PQ wireline core (85.0mm)
RR rock roller

support
C casing M mud N none

water
10/10/12, water level on date shown
water inflow
complete drilling fluid loss
partial drilling fluid loss
25uL water pressure test result (lugeons) for depth interval shown

graphic log / core recovery
core recovered (graphic symbols indicate material)
no core recovered

core run & RQD
barrel withdrawn
RQD = Rock Quality Designation (%)

weathering & alteration*
RS residual soil
XW extremely weathered
HW highly weathered
MW moderately weathered
SW slightly weathered
FR fresh
*W replaced with A for alteration

strength
VL very low
L low
M medium
H high
VH very high
EH extremely high

defect type
PT parting
JT joint
SS sheared surface
SZ sheared zone
CO contact
CS crushed seam
SM seam

roughness
VR very rough
RO rough
SO smooth
POL polished
SL slickensided

planarity
PL planar
CU curved
UN undulating
ST stepped
IR Irregular

coating
CN clean
SN stained
VN veneer
CO coating

TETRA TECH COFFEY

Engineering Log - Cored Borehole

Borehole ID.	**BH01**
sheet:	3 of 4
project no.	**754-SYDGE381816**
client:	***Ramsay Health Care Pty Ltd c/o Akalan Project Pty Ltd***
date started:	***30 Apr 2025***
principal:	
date completed:	***30 Apr 2025***
project:	***St George Private Hospital***
logged by:	***RZ/EO***
location:	***Refer to Site Plan***
checked by:	***IG***

position: E: 327,832.40; N: 6,240,107.90 (GDA2020) | surface elevation: 21.09 m (AHD) | angle from horizontal: 90°

drill model: D-4T, Truck mounted | drilling fluid: Water | hole diameter : 52/120

drilling information | **material substance** | **rock mass defects**

method & support	water	RL (m)	depth (m)	graphic log	material description **ROCK TYPE**: grain characterisics, colour, structure, minor components	weathering & alteration	estimated strength & Is50 (X = axial; O = diametral) VL L M H VH EH	samples, field tests & Is(50) (MPa) a = axial; d = diametral	core run & RQD	defect spacing (mm) 30 100 300 1000 3000	additional observations and defect descriptions (type, inclination, planarity, roughness, coating, thickness, other) particular / general
NMLC	Not Observed	13			**SANDSTONE**: medium to coarse grained, pale grey, banded orange-brown grading to pale grey, indistinctly cross bedded at 5° - 10°. *(continued)*	FR		a=1.34	99%		**CLASS III/II HAWKESBURY SANDSTONE** PT, 5°, PL, RO, CN
		12	9.0		**SANDSTONE**: medium to coarse grained, pale grey, distinctly cross bedded at 5° - 15°.			d=1.45 a=2.51			PT, 5°, PL, RO, CN CS, 15 mm
		11	10.0		**SANDSTONE**: medium to coarse grained, dark grey speckled pale grey and pale brown, indistinctly cross bedded at 5° - 15°. **SANDSTONE**: medium to coarse grained, pale grey, distinctly cross bedded at 5° - 15°.			d=1.18 a=0.89	99%		SM, Clay, 10 mm PT, 5°, PL, RO, CN **CLASS I HAWKESBURY SANDSTONE**
		10	11.0					d=1.89 a=1.47			
		9	12.0					d=1.94 a=1.84			
		8	13.0					d=1.77 a=1.62	100%		
		7	14.0					d=2.09 a=1.31			
		6	15.0		14.84 m: siltstone nodule			d=0.76 a=2.05	100%		

CDF_0_10_00.4_LIBRARY 1.GLB rev:CDF_0_10_00.4 2021-09-30 Log COF BOREHOLE: CORED SGPH_GINT_16.06.2025.GPJ <<DrawingFile>> 03/09/2025 13:34

method
DT diatube
NMLC NMLC core (51.9 mm)
NQ wireline core (47.6mm)
HQ wireline core (63.5mm)
PQ wireline core (85.0mm)
RR rock roller

support
C casing M mud N none

water
10/10/12, water level on date shown
water inflow
complete drilling fluid loss
partial drilling fluid loss
25uL water pressure test result (lugeons) for depth interval shown

graphic log / core recovery
core recovered (graphic symbols indicate material)
no core recovered

core run & RQD
barrel withdrawn
RQD = Rock Quality Designation (%)

weathering & alteration*
RS residual soil
XW extremely weathered
HW highly weathered
MW moderately weathered
SW slightly weathered
FR fresh
*W replaced with A for alteration

strength
VL very low
L low
M medium
H high
VH very high
EH extremely high

defect type
PT parting
JT joint
SS sheared surface
SZ sheared zone
CO contact
CS crushed seam
SM seam

roughness
VR very rough
RO rough
SO smooth
POL polished
SL slickensided

planarity
PL planar
CU curved
UN undulating
ST stepped
IR Irregular

coating
CN clean
SN stained
VN veneer
CO coating

TETRA TECH COFFEY

Engineering Log - Cored Borehole

Borehole ID.	**BH01**
sheet:	4 of 4
project no.	**754-SYDGE381816**
client:	***Ramsay Health Care Pty Ltd c/o Akalan Project Pty Ltd***
date started:	**30 Apr 2025**
principal:	
date completed:	**30 Apr 2025**
project:	***St George Private Hospital***
logged by:	**RZ/EO**
location:	***Refer to Site Plan***
checked by:	**IG**

position: E: 327,832.40; N: 6,240,107.90 (GDA2020) | surface elevation: 21.09 m (AHD) | angle from horizontal: 90°

drill model: D-4T, Truck mounted | drilling fluid: Water | hole diameter : 52/120

drilling information				material substance					rock mass defects		
method & support	water	RL (m)	depth (m)	graphic log	material description **ROCK TYPE**: grain characterisics, colour, structure, minor components	weathering & alteration	estimated strength & Is50 (X = axial; O = diametral) VL L M H VH EH	samples, field tests & Is(50) (MPa) a = axial; d = diametral	core run & RQD	defect spacing (mm) 30 100 300 1000 3000	additional observations and defect descriptions (type, inclination, planarity, roughness, coating, thickness, other) particular / general
NMLC	Not Observed	5			15.90 to 16.04 m: fine to medium sandstone band, dark grey, trace siltstone **SANDSTONE**: medium to coarse grained, pale grey, distinctly cross bedded at 5° - 15°. *(continued)*	FR		d=0.35 a=0.64			**CLASS I HAWKESBURY SANDSTONE**
		4	17.0					d=1.24 a=1.16	100%		
		3	18.0					d=2.22 a=1.57			
		2	19.0		18.64 to 18.75 m: distinctly cross bedded at 10° - 15°			d=2.60 a=1.42	100%		
		1	20.0		19.65 to 19.80 m: turbulent bedding			d=1.91 a=2.14			
		0	21.0					d=1.47 a=1.61			
		-1	22.0					d=1.74 a=1.52	100%		
		-2	23.0		Borehole BH01 terminated at 23.10 m Target depth			d=1.16 a=1.29			

method
DT diatube
NMLC NMLC core (51.9 mm)
NQ wireline core (47.6mm)
HQ wireline core (63.5mm)
PQ wireline core (85.0mm)
RR rock roller

support
C casing M mud N none

water
10/10/12, water level on date shown
water inflow
complete drilling fluid loss
partial drilling fluid loss
25uL water pressure test result (lugeons) for depth interval shown

graphic log / core recovery
core recovered (graphic symbols indicate material)
no core recovered

core run & RQD
barrel withdrawn
RQD = Rock Quality Designation (%)

weathering & alteration*
RS residual soil
XW extremely weathered
HW highly weathered
MW moderately weathered
SW slightly weathered
FR fresh
*W replaced with A for alteration

strength
VL very low
L low
M medium
H high
VH very high
EH extremely high

defect type
PT parting
JT joint
SS sheared surface
SZ sheared zone
CO contact
CS crushed seam
SM seam

roughness
VR very rough
RO rough
SO smooth
POL polished
SL slickensided

planarity
PL planar
CU curved
UN undulating
ST stepped
IR Irregular

coating
CN clean
SN stained
VN veneer
CO coating

CDF_0_10_00.4_LIBRARY 1.GLB rev:CDF_0_10_00.4 2021-09-30 Log COF BOREHOLE: CORED SGPH_GINT_16.06.2025.GPJ <<DrawingFile>> 03/09/2025 13:34

TETRA TECH COFFEY

Piezometer Installation Log

Hole ID.	**BH01**
sheet:	1 of 1
project no.	**754-SYDGE381816**
client:	***Ramsay Health Care Pty Ltd c/o Akalan Project Pty Ltd***
principal:	
project:	***St George Private Hospital***
location:	***Refer to Site Plan***
date started:	***30 Apr 2025***
date completed:	***30 Apr 2025***
logged by:	***RZ/EO***
checked by:	***IG***

position: E: 327,832.40; N: 6,240,107.90 (GDA2020) | surface elevation: 21.09 m (AHD) | angle from horizontal: 90°

equipment type: D-4T, Truck mounted | drilling fluid: Water | hole diameter : 52/120

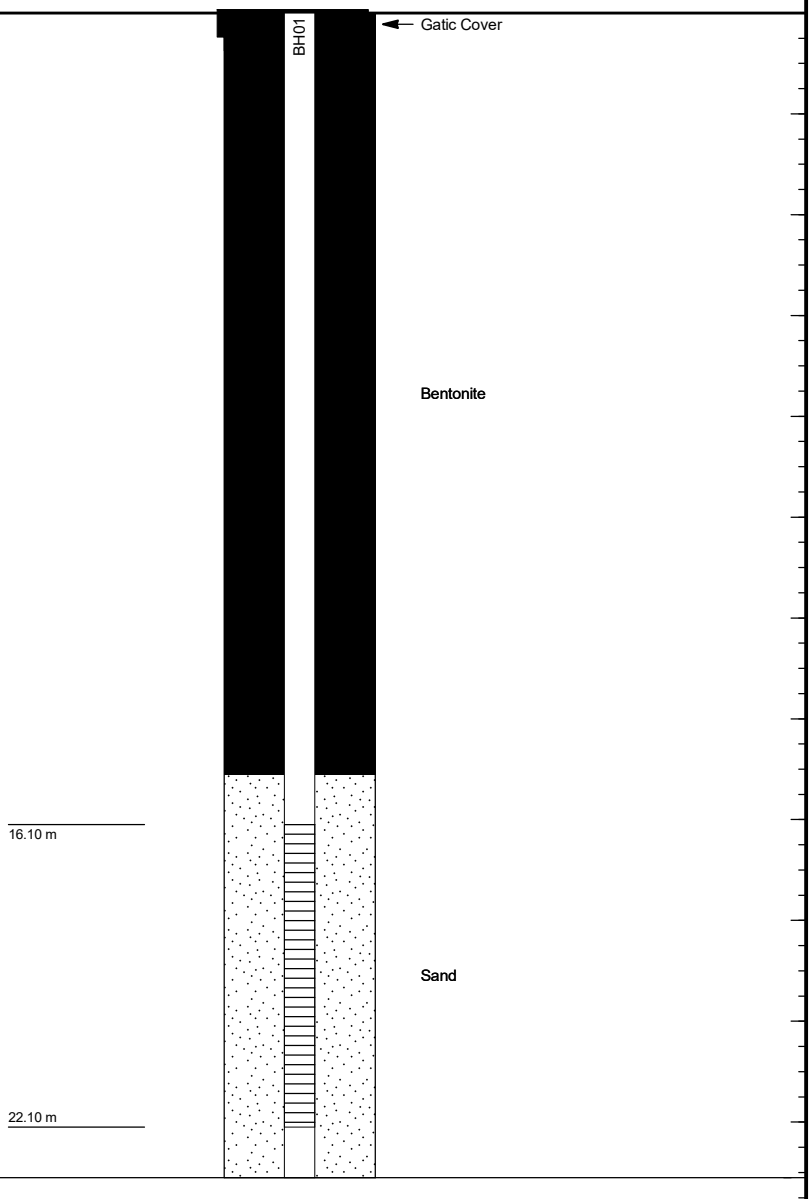
drilling information | **material substance** | **piezometer construction details**

method & support	water	RL (m)	depth (m)	graphic log	material description (refer to engineering log for full description)
HA	Not Observed	20			**FILL**
					EXTREMELY WEATHERED MATERIAL
			4		**CLASS IV HAWKESBURY SANDSTONE**
		16			**CLASS III/II HAWKESBURY SANDSTONE**
	14/05/25		8		
		12			
			12		**CLASS I HAWKESBURY SANDSTONE**
		8			
			16		
		4			
			20		
		0			

NMLC — HWT — C — D

completion details: Flush Gatic
pvc type: 50mm PVC Pipe
sand type: 1-2mm Sand
grout type: N/A

bore construction license: N/A
drilling company: Stratacore
driller: N/A
driller's permit no.: N/A



method & support
see engineering log for details

water
- 10-Oct-12, water level on date shown
- water inflow
- complete drilling fluid loss
- partial drilling fluid loss
- 25 water pressure test result (lugeons) for depth interval shown

graphic log / core recovery
- core recovered (graphic symbols indicate material)
- no core recovered

ID	type	installation date	development date	stickup (m)	tip depth (m)	water level (m)	Relative Levels (AHD) stickup	tip	water level
BH01	standpipe				23.10 m			-2.01	

CDF_0_10_00.4_LIBRARY 1.GLB rev:CDF_0_10_00.4 2021-09-30 Log COF PIEZOMETER ONE PAGE SUMMARY SGPH_GINT_16.06.2025.GPJ <<DrawingFile>> 03/09/2025 13:31

TETRA TECH COFFEY

Engineering Log - Borehole

Borehole ID.	**BH02**
sheet:	1 of 4
project no.	**754-SYDGE381816**
client:	**Ramsay Health Care Pty Ltd c/o Akalan Project Pty Ltd**
date started:	**29 Apr 2025**
principal:	
date completed:	**29 Apr 2025**
project:	**St George Private Hospital**
logged by:	**RZ/EO**
location:	**Refer to Site Plan**
checked by:	**IG**

position: E: 327,819.46; N: 6,240,067.43 (GDA2020) | surface elevation: 20.43 m (AHD) | angle from horizontal: 90°

drill model: Massenza MI2, Track mounted | drilling fluid: Water | hole diameter : 52/120

drilling information | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	RL (m)	depth (m)	graphic log	soil group symbol	material description (SOIL NAME: plasticity or particle characteristics, colour, secondary and minor components)	moisture condition	consistency / relative density	hand penetrometer (kPa) 100 200 300 400	soil origin, structure and additional observations
HA, C, AD/T		Not Observed	D	20				**TOPSOIL: SILTY SAND**: fine to medium grained, dark brown, with organic matter, trace fine to medium grained, angular to sub-angular gravel, trace root fibres.	M			**FILL**
			SPT 2, 4, 23/149mm HB N*=R	19	1.0		SC	**FILL: Gravelly SAND**: fine to medium grained, dark brown, fine to medium grained, angular to sub-angular gravel. 0.5 to 0.6 m: orange-brown sand band **FILL: CLAYEY SAND**: fine to coarse grained, orange-brown, with fine grained gravel.		D	HP 130 kPa HP 130 kPa	
								CLAYEY SAND: medium to coarse grained, red grading to pale grey, mottled orange-brown, with silt, trace iron induration.				**EXTREMELY WEATHERED MATERIAL**
				18	2.0			Borehole BH02 continued as cored hole				
				17	3.0							
				16	4.0							
				15	5.0							
				14	6.0							
				13	7.0							

CDF_0_10_00.4_LIBRARY 1.GLB rev:CDF_0_10_00.4 2021-09-30 Log COF BOREHOLE: NON CORED SGPH_GINT_16.06.2025.GPJ <<DrawingFile>> 03/09/2025 13:32

method
DT diatube
AD auger drilling*
AS auger screwing*
HA hand auger
W washbore
RR rock roller

* bit shown by suffix
e.g. AD/T
B blank bit
T TC bit
V V bit

support
M mud
C casing
N nil

penetration
1 2 3 no resistance ranging to refusal

water
10-Oct-12 water level on date shown
water inflow
water outflow

samples & field tests
B bulk disturbed sample
D disturbed sample
E environmental sample
SS split spoon sample
U## undisturbed sample ##mm diameter
HP hand penetrometer (kPa)
N standard penetration test (SPT)
N* SPT - sample recovered
Nc SPT with solid cone
VS vane shear; peak/remouded (kPa)
R refusal
HB hammer bouncing

soil group symbol & material description
based on AS 1726:2017

moisture condition
D dry
M moist
W wet
Wp plastic limit
Wl liquid limit

consistency / relative density
VS very soft
S soft
F firm
St stiff
VSt very stiff
H hard
Fb friable
VL very loose
L loose
MD medium dense
D dense
VD very dense

TETRA TECH COFFEY

Engineering Log - Cored Borehole

Borehole ID.	**BH02**
sheet:	2 of 4
project no.	**754-SYDGE381816**
client:	**Ramsay Health Care Pty Ltd c/o Akalan Project Pty Ltd**
date started:	**29 Apr 2025**
principal:	
date completed:	**29 Apr 2025**
project:	**St George Private Hospital**
logged by:	**RZ/EO**
location:	**Refer to Site Plan**
checked by:	**IG**

position: E: 327,819.46; N: 6,240,067.43 (GDA2020) | surface elevation: 20.43 m (AHD) | angle from horizontal: 90°

drill model: Massenza MI2, Track mounted | drilling fluid: Water | hole diameter : 52/120

drilling information | **material substance** | **rock mass defects**

method & support	water	RL (m)	depth (m)	graphic log	material description **ROCK TYPE**: grain characterisics, colour, structure, minor components	weathering & alteration	estimated strength & Is50 (X = axial; O = diametral) VL L M H VH EH	samples, field tests & Is(50) (MPa) a = axial; d = diametral	core run & RQD	defect spacing (mm) 30 100 300 1000 3000	additional observations and defect descriptions (type, inclination, planarity, roughness, coating, thickness, other) particular / general
		20	1.0		started coring at 1.60m						
NMLC	Not Observed 14/05/25	19	2.0		**Sandy CLAY**: medium to high plasticity, orange-red mottled pale grey, medium to coarse grained sand.	RS - XW		d=0.14 a=0.13			**CLASS IV HAWKESBURY SANDSTONE**
		18			**SANDSTONE**: medium to coarse grained, orange-red speckled pale grey, distintly cross bedded at 15°-20°.	MW			88%		Fracture Zone, 80 mm
		17	3.0		**SANDSTONE**: medium to coarse grained, pale grey speckled pale red, distintly cross bedded at 10°-15°, shale laminations. 3.35 to 3.68 m: pale grey streaked red			d=0.16 a=0.20			SM, Clay, 10 mm
		16	4.0		4.20 to 4.45 m: pale grey streaked red			d=0.15 a=0.17			SM, Clay, 60 mm SM, Clay, 100 mm SM, Clay, 20 mm PT, 0 - 5°, UN, RO, Clay SN PT, 5 - 10°, PL, RO, CN SM, Clay, 10 mm
		15	5.0					d=0.02 a=0.06	65%		PT, 0 - 5°, UN, RO, Fe SN SM, Clay, 50 mm SM, Clay, 40 mm SM, Clay, 100 mm SM, Clay, 30 mm PT, 10°, PL, RO, X CO JT, 70°, PL, RO, CN JT, 70°, PL, RO, Fe SN PT, 0 - 10°, PL, RO, CN
		14	6.0		**SANDSTONE**: medium to coarse grained, pale grey, distintly cross bedded at 10°-15°, shale laminations. 6.19 to 6.61 m: sandy clay band, medium to high plasticity	SW		d=0.15 a=0.17			**CLASS III/II HAWKESBURY SANDSTONE**
		13	7.0		7.10 to 7.20 m: sandstone massive band			d=0.50 a=0.71	83%		SM, Clay, 50 mm
					7.80 to 8.10 m: flat bedded			d=0.94			

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method
DT diatube
NMLC NMLC core (51.9 mm)
NQ wireline core (47.6mm)
HQ wireline core (63.5mm)
PQ wireline core (85.0mm)
RR rock roller

support
C casing M mud N none

water
10/10/12, water level on date shown
water inflow
complete drilling fluid loss
partial drilling fluid loss
25uL water pressure test result (lugeons) for depth interval shown

graphic log / core recovery
core recovered (graphic symbols indicate material)
no core recovered

core run & RQD
barrel withdrawn
RQD = Rock Quality Designation (%)

weathering & alteration*
RS residual soil
XW extremely weathered
HW highly weathered
MW moderately weathered
SW slightly weathered
FR fresh
*W replaced with A for alteration

strength
VL very low
L low
M medium
H high
VH very high
EH extremely high

defect type
PT parting
JT joint
SS sheared surface
SZ sheared zone
CO contact
CS crushed seam
SM seam

roughness
VR very rough
RO rough
SO smooth
POL polished
SL slickensided

planarity
PL planar
CU curved
UN undulating
ST stepped
IR Irregular

coating
CN clean
SN stained
VN veneer
CO coating

TETRA TECH COFFEY

Engineering Log - Cored Borehole

Borehole ID.	**BH02**
sheet:	3 of 4
project no.	**754-SYDGE381816**
client:	***Ramsay Health Care Pty Ltd c/o Akalan Project Pty Ltd***
date started:	**29 Apr 2025**
principal:	
date completed:	**29 Apr 2025**
project:	***St George Private Hospital***
logged by:	**RZ/EO**
location:	***Refer to Site Plan***
checked by:	**IG**

position: E: 327,819.46; N: 6,240,067.43 (GDA2020) surface elevation: 20.43 m (AHD) angle from horizontal: 90°

drill model: Massenza MI2, Track mounted drilling fluid: Water hole diameter : 52/120

drilling information | **material substance** | **rock mass defects**

method & support	water	RL (m)	depth (m)	graphic log	material description (ROCK TYPE: grain characterisics, colour, structure, minor components)	weathering & alteration	estimated strength & Is50 (X = axial; O = diametral) VL L M H VH EH	samples, field tests & Is(50) (MPa) (a = axial; d = diametral)	core run & RQD	defect spacing (mm) 30 100 300 1000 3000	additional observations and defect descriptions (type, inclination, planarity, roughness, coating, thickness, other) particular / general
NMLC	Not Observed	12			**SANDSTONE**: medium to coarse grained, pale grey, distintly cross bedded at 10°-15°, shale laminations. *(continued)* 8.12 to 8.75 m: becoming pale grey flecked brown-orange and red	SW		a=1.09	83%		**CLASS III/II HAWKESBURY SANDSTONE** SM, Clay, 30 mm
			9.0			FR		d=1.12 a=0.86			
		11									
			10.0					d=1.45 a=1.06			**CLASS I HAWKESBURY SANDSTONE**
		10							100%		PTx2, 10°, PL, RO, CN
			11.0					d=0.92 a=1.21			
		9									
			12.0		11.82 to 12.30 m: massive			d=1.14 a=1.43			
		8									PT, 15°, PL, RO, CN Fracture zone, 160 mm
			13.0					d=1.25 a=1.86			PT, 5 - 10°, UN, RO, CN
		7							92%		
			14.0					d=1.71 a=2.14			
		6									
			15.0		14.90 to 15.40 m: massive			d=1.27 a=1.71			
		5							98%		SM, Clay, 20 mm
					15.90 to 15.94 m: 35mm shale band			d=0.97 a=0.80			

CDF_0_10_00.4_LIBRARY 1.GLB rev:CDF_0_10_00.4 2021-09-30 Log COF BOREHOLE: CORED SGPH_GINT_16.06.2025.GPJ <<DrawingFile>> 03/09/2025 13:34

method
DT diatube
NMLC NMLC core (51.9 mm)
NQ wireline core (47.6mm)
HQ wireline core (63.5mm)
PQ wireline core (85.0mm)
RR rock roller

support
C casing M mud N none

water
10/10/12, water level on date shown
water inflow
complete drilling fluid loss
partial drilling fluid loss
25uL water pressure test result (lugeons) for depth interval shown

graphic log / core recovery
core recovered (graphic symbols indicate material)
no core recovered

core run & RQD
barrel withdrawn
RQD = Rock Quality Designation (%)

weathering & alteration*
RS residual soil
XW extremely weathered
HW highly weathered
MW moderately weathered
SW slightly weathered
FR fresh
*W replaced with A for alteration

strength
VL very low
L low
M medium
H high
VH very high
EH extremely high

defect type
PT parting
JT joint
SS sheared surface
SZ sheared zone
CO contact
CS crushed seam
SM seam

roughness
VR very rough
RO rough
SO smooth
POL polished
SL slickensided

planarity
PL planar
CU curved
UN undulating
ST stepped
IR Irregular

coating
CN clean
SN stained
VN veneer
CO coating

TETRA TECH COFFEY

Engineering Log - Cored Borehole

Borehole ID.	**BH02**
sheet:	4 of 4
project no.	**754-SYDGE381816**
client:	***Ramsay Health Care Pty Ltd c/o Akalan Project Pty Ltd***
date started:	***29 Apr 2025***
principal:	
date completed:	***29 Apr 2025***
project:	***St George Private Hospital***
logged by:	***RZ/EO***
location:	***Refer to Site Plan***
checked by:	***IG***

position: E: 327,819.46; N: 6,240,067.43 (GDA2020) surface elevation: 20.43 m (AHD) angle from horizontal: 90°

drill model: Massenza MI2, Track mounted drilling fluid: Water hole diameter : 52/120

drilling information				material substance					rock mass defects		
method & support	water	RL (m)	depth (m)	graphic log	material description **ROCK TYPE**: grain characterisics, colour, structure, minor components	weathering & alteration	estimated strength & Is50 (X = axial; O = diametral) VL L M H VH EH	samples, field tests & Is(50) (MPa) a = axial; d = diametral	core run & RQD	defect spacing (mm) 30 100 300 1000 3000	additional observations and defect descriptions (type, inclination, planarity, roughness, coating, thickness, other) particular / general
NMLC	Not Observed	4	17.0		**SANDSTONE**: medium to coarse grained, pale grey, distintly cross bedded at 10°-15°, shale laminations. *(continued)*	FR		d=1.03 a=0.82	98%		PT, 10°, PL, RO, CN **CLASS I HAWKESBURY SANDSTONE** PT, 10°, PL, RO, CN SM, Clay, 25 mm PT, 5°, PL, RO, CN
		3	18.0					d=1.77 a=1.75			
		2	19.0					d=1.36 a=1.10	96%		SM, Clay, 20 mm PT, 5°, PL, RO, CN
		1	20.0					d=1.22 a=1.26			PT, 5°, UN, RO, Clay VN CS, Clay, 25 mm SM, Clay, 10 mm
		0	21.0					d=1.74 a=0.77 d=1.34 a=1.24			
		-1	22.0		21.60 to 22.30 m: with quartz inclusions				99%		SM, Clay, 20 mm
		-2	23.0					d=1.16 a=1.97	100% 0%		PT, 5°, PL, RO, CN NMLC drill bit was damaged. Drill swap to PCD. No core recovery.
		-3			Borehole BH02 terminated at 23.09 m Target depth						

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method
DT diatube
NMLC NMLC core (51.9 mm)
NQ wireline core (47.6mm)
HQ wireline core (63.5mm)
PQ wireline core (85.0mm)
RR rock roller

support
C casing M mud N none

water
10/10/12, water level on date shown
water inflow
complete drilling fluid loss
partial drilling fluid loss
25uL water pressure test result (lugeons) for depth interval shown

graphic log / core recovery
core recovered (graphic symbols indicate material)
no core recovered

core run & RQD
barrel withdrawn
RQD = Rock Quality Designation (%)

weathering & alteration*
RS residual soil
XW extremely weathered
HW highly weathered
MW moderately weathered
SW slightly weathered
FR fresh
*W replaced with A for alteration

strength
VL very low
L low
M medium
H high
VH very high
EH extremely high

defect type
PT parting
JT joint
SS sheared surface
SZ sheared zone
CO contact
CS crushed seam
SM seam

roughness
VR very rough
RO rough
SO smooth
POL polished
SL slickensided

planarity
PL planar
CU curved
UN undulating
ST stepped
IR Irregular

coating
CN clean
SN stained
VN veneer
CO coating

TETRA TECH COFFEY

Piezometer Installation Log

Hole ID.	**BH02**
sheet:	1 of 1
project no.	**754-SYDGE381816**
client:	***Ramsay Health Care Pty Ltd c/o Akalan Project Pty Ltd***
principal:	
project:	***St George Private Hospital***
location:	***Refer to Site Plan***
date started:	***29 Apr 2025***
date completed:	***29 Apr 2025***
logged by:	***RZ/EO***
checked by:	***IG***

position: E: 327,819.46; N: 6,240,067.43 (GDA2020) | surface elevation: 20.43 m (AHD) | angle from horizontal: 90°

equipment type: Massenza MI2, Track mounted | drilling fluid: Water | hole diameter : 52/120

drilling information | **material substance** | **piezometer construction details**

method & support | water | RL (m) | depth (m) | graphic log | material description (refer to engineering log for full description)

AD/T HA C — NMLC — HWT

Not Observed

14/05/25

20 | 16 | 12 | 8 | 4 | 0

4 | 8 | 12 | 16 | 20

FILL

EXTREMELY WEATHERED MATERIAL

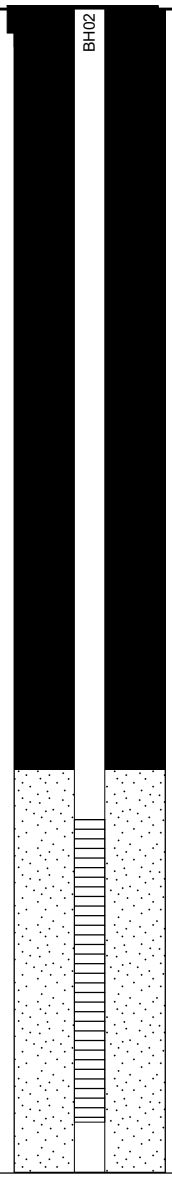
CLASS IV HAWKESBURY SANDSTONE

CLASS III/II HAWKESBURY SANDSTONE

CLASS I HAWKESBURY SANDSTONE

completion details: Flush Gatic
pvc type: 50mm PVC Pipe
sand type: 1-2mm Sand
grout type: N/A

bore construction license: N/A
drilling company: Stratacore
driller: N/A
driller's permit no.: N/A



method & support
see engineering log for details

water
- 10-Oct-12, water level on date shown
- water inflow
- complete drilling fluid loss
- partial drilling fluid loss
- 25 — water pressure test result (lugeons) for depth interval shown

graphic log / core recovery
- core recovered (graphic symbols indicate material)
- no core recovered

ID	type	installation date	development date	stickup (m)	tip depth (m)	water level (m)	Relative Levels (AHD) stickup	tip	water level
BH02	standpipe				23.08 m			-2.65	

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TETRA TECH COFFEY

Engineering Log - Borehole

Borehole ID.	**BH03**
sheet:	1 of 4
project no.	**754-SYDGE381816**
client:	**Ramsay Health Care Pty Ltd c/o Akalan Project Pty Ltd**
date started:	**28 Apr 2025**
principal:	
date completed:	**28 Apr 2025**
project:	**St George Private Hospital**
logged by:	**RZ/EO**
location:	**Refer to Site Plan**
checked by:	**IG**

position: E: 327,845.22; N: 6,240,064.94 (GDA2020) | surface elevation: 20.01 m (AHD) | angle from horizontal: 90°

drill model: Massenza MI2, Track mounted | drilling fluid: Water | hole diameter : 52/120

drilling information | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	RL (m)	depth (m)	graphic log	soil group symbol	material description (SOIL NAME: plasticity or particle characteristics, colour, secondary and minor components)	moisture condition	consistency / relative density	hand penetrometer (kPa)	soil origin, structure and additional observations
DT				20				**ASPHALT**.				**FILL**
HA		Not Observed	D					**FILL: Gravelly SAND**: fine to medium grained, dark brown-grey mottled dark grey and orange-yellow, gravel is fine to medium and angular to sub-angular, trace silt, trace glass fragments and 110mm length of rebar.	D - M			
			D	19	1.0		SP-SC	**FILL: CLAYEY SAND**: fine to medium grained, dark grey mottled pale brown-yellow, with silt, trace ironstone gravel.				
AD/T			SPT 2, 2, 4 N*=6				CL-CI	**Sandy CLAY**: medium to high plasticity, pale brown and orange mottled pale grey, sand is fine to medium grained, trace fine grained gravel. 1.7 m: becoming pale grey mottled red-brown	<Wp	St	HP 180 kPa HP 130 kPa HP 130 kPa	**RESIDUAL SOIL**
C				18	2.0			**SAND**: medium to coarse grained, pale red mottled brown.		D - VD		**EXTREMELY WEATHERED MATERIAL** At 2.20m: drilling resistance increased
			SPT 5/50mm HB N*=R					Borehole BH03 continued as cored hole				
				17	3.0							
				16	4.0							
				15	5.0							
				14	6.0							
				13	7.0							

CDF_0_10_00.4_LIBRARY 1.GLB rev:CDF_0_10_00.4 2021-09-30 Log COF BOREHOLE: NON CORED SGPH_GINT_16.06.2025.GPJ <<DrawingFile>> 03/09/2025 13:32

method
- DT diatube
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- RR rock roller

* bit shown by suffix e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remoulded (kPa)
- R refusal
- HB hammer bouncing

soil group symbol & material description based on AS 1726:2017

moisture condition
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

TETRA TECH COFFEY

Engineering Log - Cored Borehole

Borehole ID.	**BH03**
sheet:	2 of 4
project no.	**754-SYDGE381816**
client:	**Ramsay Health Care Pty Ltd c/o Akalan Project Pty Ltd**
date started:	**28 Apr 2025**
principal:	
date completed:	**28 Apr 2025**
project:	**St George Private Hospital**
logged by:	**RZ/EO**
location:	**Refer to Site Plan**
checked by:	**IG**

position: E: 327,845.22; N: 6,240,064.94 (GDA2020) | surface elevation: 20.01 m (AHD) | angle from horizontal: 90°

drill model: Massenza MI2, Track mounted | drilling fluid: Water | hole diameter : 52/120

drilling information | **material substance** | **rock mass defects**

method & support	water	RL (m)	depth (m)	graphic log	material description **ROCK TYPE**: grain characterisics, colour, structure, minor components	weathering & alteration	estimated strength & Is50 (X = axial; O = diametral) VL L M H VH EH	samples, field tests & Is(50) (MPa) a = axial; d = diametral	core run & RQD	defect spacing (mm) 30 100 300 1000 3000	additional observations and defect descriptions (type, inclination, planarity, roughness, coating, thickness, other) particular / general
		20									
		19	1.0								
		18	2.0		started coring at 2.65m						
NMLC	I14/05/25rved	17	3.0		**CLAYEY SAND**: fine to coarse grained, pale brown.	XW					**CLASS IV HAWKESBURY SANDSTONE** SM, Clay, 20 mm
					SANDSTONE: medium to coarse grained, pale grey and orange-brown, speckled red, indistinctly cross bedded at 10° - 15°. 3.30 m: becoming red-purple mottled pale grey	MW		d=0.12 a=0.20	75%		
		16	4.0					d=0.26 a=0.33			SM, Clay, 80 mm PT, 10°, PL, Fe healed PT, 10°, PL, RO, Fe SN SM, Clay, 70 mm PT, 10°, PL, Clay, closed JT, 70°, PL, RO, CN
					SANDSTONE: medium to coarse grained, pale grey, bands of red and orange-brown, indistinctly cross bedded at 10° - 15°.	SW		d=0.15 a=0.14			Fracture Zone, Fe SN, 80 mm SM, Clay, 50 mm CS, 30 mm PT, 15°, PL, RO, Fe SN
		15	5.0								Fracture zone, Fe SN, 60 mm
											CLASS III/II HAWKESBURY SANDSTONE PT, 5°, PL, RO, CN PT, 5°, PL, RO, CN
		14	6.0					d=0.33 a=0.43	86%		PT, 0 - 5°, UN, RO, Clay CO - Fe SN SM, Clay, 20 mm
		13	7.0		7.08 m: becoming distinctly cross bedded at 10° - 15°			d=0.47 a=0.55			
								d=0.23	97%		

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method
DT diatube
NMLC NMLC core (51.9 mm)
NQ wireline core (47.6mm)
HQ wireline core (63.5mm)
PQ wireline core (85.0mm)
RR rock roller

support
C casing M mud N none

water
10/10/12, water level on date shown
water inflow
complete drilling fluid loss
partial drilling fluid loss
25uL water pressure test result (lugeons) for depth interval shown

graphic log / core recovery
core recovered (graphic symbols indicate material)
no core recovered

core run & RQD
barrel withdrawn
RQD = Rock Quality Designation (%)

weathering & alteration*
RS residual soil
XW extremely weathered
HW highly weathered
MW moderately weathered
SW slightly weathered
FR fresh
*W replaced with A for alteration

strength
VL very low
L low
M medium
H high
VH very high
EH extremely high

defect type
PT parting
JT joint
SS sheared surface
SZ sheared zone
CO contact
CS crushed seam
SM seam

roughness
VR very rough
RO rough
SO smooth
POL polished
SL slickensided

planarity
PL planar
CU curved
UN undulating
ST stepped
IR Irregular

coating
CN clean
SN stained
VN veneer
CO coating

TETRA TECH COFFEY

Engineering Log - Cored Borehole

Borehole ID.	**BH03**
sheet:	3 of 4
project no.	**754-SYDGE381816**
client:	***Ramsay Health Care Pty Ltd c/o Akalan Project Pty Ltd***
date started:	**28 Apr 2025**
principal:	
date completed:	**28 Apr 2025**
project:	***St George Private Hospital***
logged by:	**RZ/EO**
location:	***Refer to Site Plan***
checked by:	**IG**

position: E: 327,845.22; N: 6,240,064.94 (GDA2020) surface elevation: 20.01 m (AHD) angle from horizontal: 90°

drill model: Massenza MI2, Track mounted drilling fluid: Water hole diameter : 52/120

drilling information | **material substance** | **rock mass defects**

method & support	water	RL (m)	depth (m)	graphic log	material description **ROCK TYPE**: grain characterisics, colour, structure, minor components	weathering & alteration	estimated strength & Is50 (X = axial; O = diametral) VL L M H VH EH	samples, field tests & Is(50) (MPa) a = axial; d = diametral	core run & RQD	defect spacing (mm) 30 100 300 1000 3000	additional observations and defect descriptions (type, inclination, planarity, roughness, coating, thickness, other) particular / general
NMLC	Not Observed	12						a=0.29			SM, Clay, 90 mm **CLASS III/II HAWKESBURY SANDSTONE**
		11	9.0		**SANDSTONE**: medium to coarse grained, pale grey mottled orange-brown speckled red-purple, indistinctly cross bedded at 10° - 15°.	SW		d=1.21 a=1.12	97%		**CLASS I HAWKESBURY SANDSTONE** PT, 0 - 5°, UN, RO, CN
		10	10.0		**SANDSTONE**: medium to coarse grained, pale grey flecked orange-brown, grading to pale grey, distinctly cross bedded at 10° - 15°.	FR		d=1.07 a=1.62			PT, 5 - 10°, UN, RO, CN
		9	11.0					d=1.08 a=1.50			PT, 15°, PL, RO, CN SM, Clay, 5 mm
		8	12.0					d=1.69 a=1.59	97%		PT, 10°, PL, RO, X CO
		7	13.0		12.75 to 12.79 m: siltstone nodule, up to 40 mm thick 12.83 to 12.94 m: pale grey mottled orange-brown 13.18 to 13.25 m: siltstone lamination, distinctly laminated at 15°			d=1.36 a=2.44			PT, 5 - 15°, UN, RO, CN SM, Clay, 30 mm
		6	14.0		**SANDSTONE**: medium to coarse grained, pale grey, massive.			d=1.23 a=1.44			
		5	15.0		14.71 to 14.79 m: distinctly cross bedded at 0° - 10° band			d=1.34 a=1.61	100%		PT, 10°, PL, RO, CN PT, 5 - 10°, UN, RO, CN CS, 10 mm PT, 10°, PL, RO, CN PT, 10°, PL, RO, CN
					15.35 to 15.55 m: distinctly cross bedded at 10° - 15° band			d=1.26			

method
DT diatube
NMLC NMLC core (51.9 mm)
NQ wireline core (47.6mm)
HQ wireline core (63.5mm)
PQ wireline core (85.0mm)
RR rock roller

support
C casing M mud N none

water
10/10/12, water level on date shown
water inflow
complete drilling fluid loss
partial drilling fluid loss
25uL water pressure test result (lugeons) for depth interval shown

graphic log / core recovery
core recovered (graphic symbols indicate material)
no core recovered

core run & RQD
barrel withdrawn
RQD = Rock Quality Designation (%)

weathering & alteration*
RS residual soil
XW extremely weathered
HW highly weathered
MW moderately weathered
SW slightly weathered
FR fresh
*W replaced with A for alteration

strength
VL very low
L low
M medium
H high
VH very high
EH extremely high

defect type
PT parting
JT joint
SS sheared surface
SZ sheared zone
CO contact
CS crushed seam
SM seam

planarity
PL planar
CU curved
UN undulating
ST stepped
IR Irregular

roughness
VR very rough
RO rough
SO smooth
POL polished
SL slickensided

coating
CN clean
SN stained
VN veneer
CO coating

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TETRA TECH COFFEY

Engineering Log - Cored Borehole

Borehole ID.	**BH03**
sheet:	4 of 4
project no.	**754-SYDGE381816**
client:	***Ramsay Health Care Pty Ltd c/o Akalan Project Pty Ltd***
date started:	**28 Apr 2025**
principal:	
date completed:	**28 Apr 2025**
project:	***St George Private Hospital***
logged by:	**RZ/EO**
location:	***Refer to Site Plan***
checked by:	**IG**

position: E: 327,845.22; N: 6,240,064.94 (GDA2020) surface elevation: 20.01 m (AHD) angle from horizontal: 90°

drill model: Massenza MI2, Track mounted drilling fluid: Water hole diameter : 52/120

drilling information				material substance					rock mass defects		
method & support	water	RL (m)	depth (m)	graphic log	material description **ROCK TYPE**: grain characterisics, colour, structure, minor components	weathering & alteration	estimated strength & Is50 (X = axial; O = diametral) VL L M H VH EH	samples, field tests & Is(50) (MPa) a = axial; d = diametral	core run & RQD	defect spacing (mm) 30 100 300 1000 3000	additional observations and defect descriptions (type, inclination, planarity, roughness, coating, thickness, other) particular / general
NMLC	Not Observed	4			**SANDSTONE**: medium to coarse grained, pale grey, indistinctly cross bedded at 10° - 15°. *(continued)*	FR		a=0.68	100%		**CLASS I HAWKESBURY SANDSTONE**
		3	17.0					d=1.54 a=1.67			PT, 10°, PL, RO, Clay VN CS, 30 mm
		2	18.0					d=1.18 a=1.26	98%		PT, 15°, PL, RO, Clay CO SM, Clay, 60 mm
		1	19.0		18.80 m: becoming pale grey-yellow			d=0.81 a=1.23			
		0	20.0					d=1.53 a=1.71	100%		SM, Clay, 10 mm PT, 5 - 10°, UN, RO, CN
		-1	21.0					d=1.06 a=1.03			
		-2	22.0					d=1.41 a=1.76	100%		
		-3	23.0					d=0.68 a=1.22			
					23.20 m: medium vitrinite coal band Borehole BH03 terminated at 23.22 m Target depth						

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method
DT diatube
NMLC NMLC core (51.9 mm)
NQ wireline core (47.6mm)
HQ wireline core (63.5mm)
PQ wireline core (85.0mm)
RR rock roller

support
C casing M mud N none

water
10/10/12, water level on date shown
water inflow
complete drilling fluid loss
partial drilling fluid loss
25uL water pressure test result (lugeons) for depth interval shown

graphic log / core recovery
core recovered (graphic symbols indicate material)
no core recovered

core run & RQD
barrel withdrawn
RQD = Rock Quality Designation (%)

weathering & alteration*
RS residual soil
XW extremely weathered
HW highly weathered
MW moderately weathered
SW slightly weathered
FR fresh
*W replaced with A for alteration

strength
VL very low
L low
M medium
H high
VH very high
EH extremely high

defect type
PT parting
JT joint
SS sheared surface
SZ sheared zone
CO contact
CS crushed seam
SM seam

roughness
VR very rough
RO rough
SO smooth
POL polished
SL slickensided

planarity
PL planar
CU curved
UN undulating
ST stepped
IR Irregular

coating
CN clean
SN stained
VN veneer
CO coating

TETRA TECH COFFEY

Piezometer Installation Log

Hole ID.	**BH03**
sheet:	1 of 1
project no.	**754-SYDGE381816**
client:	***Ramsay Health Care Pty Ltd c/o Akalan Project Pty Ltd***
date started:	**28 Apr 2025**
principal:	
date completed:	**28 Apr 2025**
project:	***St George Private Hospital***
logged by:	**RZ/EO**
location:	***Refer to Site Plan***
checked by:	**IG**

position: E: 327,845.22; N: 6,240,064.94 (GDA2020) | surface elevation: 20.01 m (AHD) | angle from horizontal: 90°

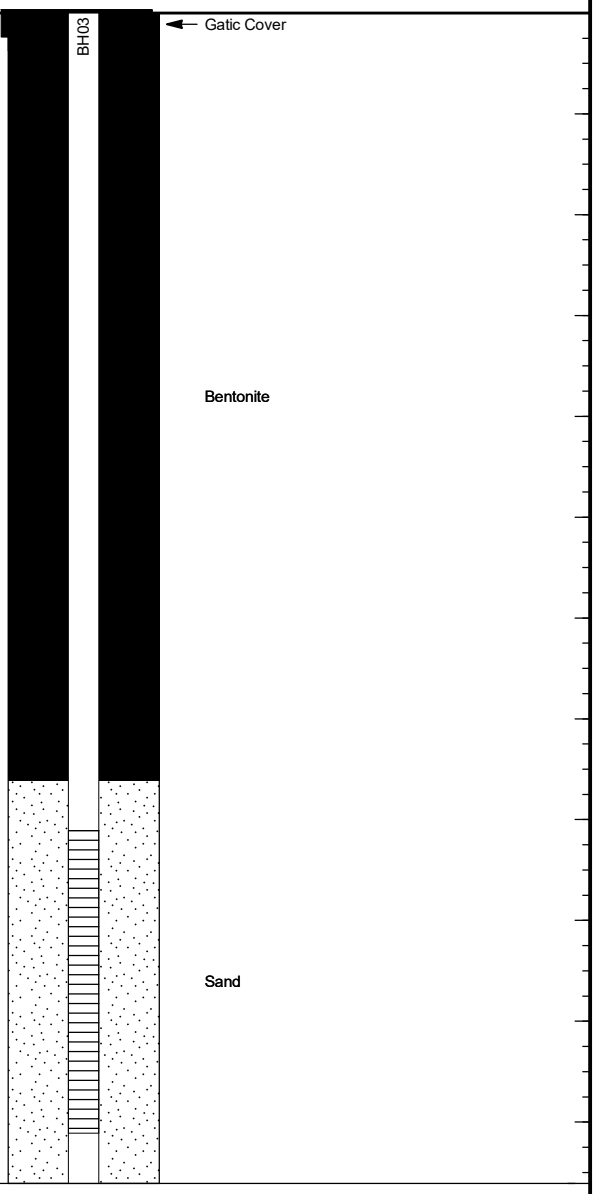
equipment type: Massenza MI2, Track mounted | drilling fluid: Water | hole diameter : 52/120

drilling information | **material substance** | **piezometer construction details**

completion details: Flush Gatic
pvc type: 50mm PVC Pipe
sand type: 1-2mm Sand
grout type: N/A

bore construction license: N/A
drilling company: Stratacore
driller: N/A
driller's permit no.: N/A

method & support	water	RL (m)	depth (m)	graphic log	material description (refer to engineering log for full description)
AD/T, C	Not Observed	20	0		**FILL**
					RESDIUAL SOIL
					EXTREMELY WEATHERED MATERIAL
	14/05/25	16	4		**CLASS IV HAWKESBURY SANDSTONE**
		12	8		**CLASS III/II HAWKESBURY SANDSTONE**
NMLC, HWT		8	12		**CLASS I HAWKESBURY SANDSTONE**
		4	16		
		0	20		



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method & support
see engineering log for details

water
- 10-Oct-12, water level on date shown
- water inflow
- complete drilling fluid loss
- partial drilling fluid loss
- 25 water pressure test result (lugeons) for depth interval shown

graphic log / core recovery
- core recovered (graphic symbols indicate material)
- no core recovered

ID	type	installation date	development date	stickup (m)	tip depth (m)	water level (m)	Relative Levels (AHD) stickup	tip	water level
BH03	standpipe				23.22 m			-3.21	

SOIL DESCRIPTION EXPLANATION SHEET

DEFINITION:

In engineering terms soil includes every type of uncemented or partially cemented inorganic or organic material found in the ground. In practice, if the material can be remoulded or disaggregated by hand in its field condition or in water it is described as a soil. Other materials are described using rock description terms.

CLASSIFICATION SYMBOL & SOIL NAME

Soils are described in accordance with AS 1726:2017 as shown in the table on Sheet 2.

PARTICLE SIZE DEFINITIONS

Components	Subdivision	Size (mm)
Boulders Cobbles		>200 63 - 200
Gravel	Coarse Medium Fine	19 - 63 6.7 - 19 2.36 - 6.7
Sand	Coarse Medium Fine	0.6 - 2.36 0.210 - 0.6 0.075 - 0.21
Silt Clay		0.002 – 0.075 < 0.002

MOISTURE CONDITION

Coarse Grained Soil

Dry (D)	Non-cohesive and free-running
Moist (M)	Soil feels cool, darked in colour. Soil tends to stick together.
Wet (W)	As for moist, with free water forming when handled.

Fine Grained Soil

Moist, dry of plastic limit ($w<W_P$)	Hard and friable or powdery
Moist, near plastic limit ($w\approx W_P$)	Can be moulded at a moisture content approximately equal to the plastic limit.
Moist, wet of plastic limit ($w>W_P$)	Soils usually weakened and free water forms on hands when handling.
Wet, near liquid limit ($w\approx W_L$)	Near liquid limit.
Wet, wet of liquid limit ($w>W_L$)	Wet of liquid limit.

CONSISTENCY OF COHESIVE SOILS

Term (Abbreviation)	Indicative undrained shear strength s_u (kPa)	Field guide
Very Soft (VS)	<12	Soil exudes between fingers when squeezed in hand.
Soft (S)	12 – 25	Soil can be moulded by light finger pressure.
Firm (F)	25 – 50	Soil can be moulded by strong finger pressure.
Stiff (St)	50 – 100	Soil cannot be moulded by fingers.
Very Stiff (VSt)	100 – 200	Soil can be indented by thumb nail.
Hard (H)	>200	Soil can be indented with difficulty by thumb nail.
Friable (Fb)	–	Soil can be easily crumbled or broken into small pieces by hand.

RELATIVE DENSITY OF NON-COHESIVE SOILS

Term (Abbreviation)	Density index (%)
Very Loose (VL)	Less than 15
Loose (L)	15 – 35
Medium Dense (MD)	35 – 65
Dense (D)	65 – 85
Very Dense (VD)	Greater than 85

MINOR COMPONENTS

Term	Assessment Guide	Proportion of minor component in:
Trace	Presence just detectable by feel or eye, but soil properties little or no different to general properties of primary component.	Coarse grained soils: Fines - <5%, Accessory coarse fraction - <15% Fine grained soils: sand/gravel <15%
With	Presence easily detected by feel or eye, soil properties little different to general properties of primary component.	Coarse grained soils: Fines - 5 to 12%, Accessory coarse fraction – 15 to 30% Fine grained soils: sand/gravel 15 to 30%

SOIL STRUCTURE AND CEMENTATION

Zoning		Cementation	
Layer	Zone is continuous across exposure or sample.	Weakly cemented	Easily disaggregated by hand in air or water.
Lense	Discontinuous layer of different material, with lenticular shape.	Moderately cemented	Effort is required to disaggregate the soil by hand in air or water.
Pocket	Irregular inclusion of different material.		

GEOLOGICAL ORIGIN

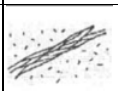
Residual soil	Structure and fabric of parent rock not visible.
Extremely weathered material	Structure and/or fabric of parent rock is visible.
Alluvial soil	Deposited by streams and rivers.
Estuarine soil	Deposited in coastal estuaries, including sediments carried by inflowing rivers and streams, or tidal currents.
Marine soil	Deposited in a marine environment
Lacustrine soil	Deposited in freshwater lakes
Aeolian soil	Carried and deposited by wind
Colluvial soil	Deposited on slopes (transported downslope by gravity, with or without assistance of water).
Topsoil	Mantle of surface or near surface material, often defined by high levels of organic material.
Fill	Any material which has been placed by anthropogenic processes. Fill may be significantly more variable between tested locations than naturally occurring soils.

SOIL CLASSIFICATION INCLUDING IDENTIFICATION AND DESCRIPTION

FIELD IDENTIFICATION PROCEDURES (Excluding particles larger than 63 mm and basing fractions on estimated mass)							GROUP SYMBOL	SOIL NAME
COARSE GRAINED SOIL More than 65% of materials less than 63 mm is larger than 0.075 mm	(A 0.075 mm particle is about the smallest particle visible to the naked eye)	GRAVEL More than half of coarse fraction is larger than 2.36 mm	CLEAN GRAVEL (Fines less than 5%)	Wide range in grain size and substantial amounts of all intermediate particle sizes, not enough fines to bind coarse grains, no dry strength.			GW	GRAVEL
				Predominantly one size or a range of sizes with some intermediate sizes missing, not enough fines to bind coarse grains, no dry strength.			GP	GRAVEL
			GRAVEL with FINES (Fines greater than 12%)	'Dirty' materials with excess of non-plastic fines (for identification procedures see ML below).			GM	Silty GRAVEL
				'Dirty' materials with excess of plastic fines (for identification procedures see CL below).			GC	Clayey GRAVEL
		SAND More than half of coarse fraction is smaller than 2.36	CLEAN SAND (Fines less than 5%)	Wide range in grain sizes and substantial amounts of all intermediate sizes, not enough fines to bind coarse grains, no dry strength.			SW	SAND
				Predominantly one size or a range of sizes with some intermediate sizes missing, not enough fines to bind coarse grains, no dry strength.			SP	SAND
			SAND with FINES (Fines greater than 12%)	'Dirty' materials with excess of non-plastic fines (for identification procedures see ML below).			SM	Silty SAND
				'Dirty' materials with excess of plastic fines (for identification procedures see CL below).			SC	Clayey SAND
FINE GRAINED SOIL More than 35% of material less than 63 mm is smaller than 0.075 mm			IDENTIFICATION PROCEDURES ON FRACTIONS <0.2 mm					
		SILT & CLAY Liquid limit less	DRY STRENGTH	DILATANCY	TOUGHNESS			
			None to low	Slow to rapid	Low		ML	SILT
			Medium to high	None to slow	Medium		CL, CI	CLAY
			Low to medium	Slow	Low		OL	Organic SILT
		SILT & CLAY Liquid limit	Low to medium	None to slow	Low to medium		MH	SILT
			High to very high	None	High		CH	CLAY
			Medium to high	None to very slow	Low to medium		OH	Organic CLAY
HIGHLY ORGANIC SOILS			Readily identified by colour, odour, spongy feel and frequently by fibrous texture.				PT	Peat

● Low plasticity – Liquid Limit W_L less than 35%. ● Medium plasticity –W_L between 35% and 50%. ● High plasticity – W_L greater than 50%.

COMMON DEFECTS IN SOIL

TERM	DEFINITION	DIAGRAM
Parting	A surface or crack across which the soil has little or no tensile strength. Parallel or sub parallel to layering (e g. bedding). May be open or closed.	
Fissure	A surface or crack across which the soil has little or no tensile strength but which is not parallel or sub parallel to layering. May be open or closed. May include desiccation cracks.	
Sheared Seam	Zone in clayey soil with roughly parallel near planar, curved or undulating boundaries containing closely spaced, smooth or slickensided, curved intersecting joints which divide the mass into lenticular or wedge shaped blocks.	
Sheared Surface	A near planar curved or undulating, smooth, polished or slickensided surface in clayey soil. The polished or slickensided surface indicates that movement (in many cases very little) has occurred along the defect	

TERM	DEFINITION	DIAGRAM
Softened Zone	A zone in clayey soil, usually adjacent to a defect in which the soil has a higher moisture content than elsewhere	
Tube	Tubular cavity. May occur singly or as one of a large number of separate or interconnected tubes. Walls often coated with clay or strengthened by denser packing of grains. May contain organic matter. Origins include root holes, animal burrows, tunnel erosion.	
Tube cast	An infilled tube. The infill may be uncemented or weakly cemented soil or have rock properties.	
Infilled Seam	Sheet or wall like body of soil substance or mass with roughly planar to irregular near parallel boundaries which cuts through a soil mass. Formed by infilling of open defects.	

ROCK DESCRIPTION EXPLANATION SHEET

The descriptive terms used by Tetra Tech Coffey are given below. They are broadly consistent with Australian Standard AS1726:2017.

DEFINITIONS: Rock material, defect, structure and rock mass are defined as follows:

Rock material	In engineering terms rock material is any naturally occurring aggregate of minerals and/or organic materials that cannot be disaggregated by hand in air or water without prior soaking. Rock material is intact rock that is bounded by defects. Material which can be disaggregated or remoulded should be described as a soil.
Defect	Discontinuity, fracture, break or void in the material or materials across which there is little or no tensile strength.
Structure	Nature and configuration of the different defects within the rock mass and their relationship with each other.
Rock mass	It is the entirety of the system formed by all of the rock material and all of the defects. That is, it is a body of material which is not effectively homogeneous.

MATERIAL DESCRIPTIVE TERMS:

Rock name	Simple rock names are used rather than precise geological classification.
Particle size	Grain size terms for sandstone are:
Coarse grained	Mainly 0.6mm to 2mm
Medium grained	Mainly 0.2mm to 0.6mm
Fine grained	Mainly 0.06mm (just visible) to 0.2mm
Fabric	When grains show an alignment, a preferred orientation or a layering (e.g. bedding or lamination for sedimentary rocks, and foliation or cleavage for metamorphic rocks) the terms used are:
Massive	No layering or penetrative fabric.
Indistinct	Layering or fabric just visible. Little effect on strength properties.
Distinct	Layering or fabric is easily visible. Rock may break more easily parallel to the fabric.

CLASSIFICATION OF MATERIAL WEATHERING

Term	Abbreviation	Definition
Residual Soil	**RS**	Material is weathered to such an extent that it has soil properties. Mass structure and material texture and fabric of original rock are no longer visible. Soil has not been significantly transported.
Extremely Weathered	**XW**	Material is weathered to such an extent that it has soil properties, i.e. it either disaggregates or can be remoulded in water. Mass structure and material texture and fabric of original rock are still visible.
Highly Weathered[1]	**HW**	The whole of the rock material is discoloured, usually by iron staining or bleaching to the extent that the colour of the original rock is not recognisable. Rock strength is significantly changed by weathering. Some primary minerals have weathered to clay minerals. Porosity may be increased by leaching or may be decreased due to the deposition of weathering products in pores.
Moderately Weathered[1]	**MW**	The whole of the rock material is discoloured, usually by iron staining or bleaching to the extent that the colour of the original rock is no longer recognisable. Little or no change of strength from fresh rock.
Slightly Weathered	**SW**	Rock is partially discoloured with staining or bleaching adjacent to defects, but shows little or no change of strength from fresh rock.
Fresh	**FR**	Rock shows no sign of decomposition of individual minerals or colour changes.

Notes on Weathering:

1. The term 'Distinctly Weathered' (DW) may be used where it is not practicable (or it is judged that there is no advantage in making such a distinction) to distinguish between 'Highly Weathered' and 'Moderately Weathered'. 'Distinctly Weathered' is defined as follows: 'Rock strength usually changed by weathering. The rock may be highly discoloured, usually by iron staining. Porosity may be increased by leaching, or may be decreased due to deposition of weathering products in pores'.
2. Where physical and chemical changes of the rock material are caused by hot gases or liquids at depth (process called alteration) the term 'altered' may be substituted for 'weathering' to give the abbreviations XA, HA, MA, SA and DA.

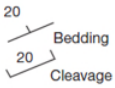
ROCK MATERIAL STRENGTH TERMS

Term (Abbreviation)	Guide to Strength: Point Load Strength Index, $I_{s(50)}$ (MPa)	Guide to Strength: Field Assessment
Very Low (VL)	0.03 - 0.1	Material crumbles under firm blows with sharp end of pick; can be peeled with a knife; too hard to cut a triaxial sample by hand; pieces up to 30mm thick can be broken by finger pressure.
Low (L)	0.1 - 0.3	Easily scored with a knife; indentations 1mm to 3mm show with firm bows of a pick point; has a dull sound under hammer. A piece of core 150mm long by 50mm diameter may be broken by hand. Sharp edges of core may be friable and break during handling.
Medium (M)	0.3 to 1.0	Readily scored with a knife; a piece of core 150mm long by 50mm diameter can be broken by hand with difficulty.
High (H)	1 to 3	A piece of core 150mm long by 50mm diameter cannot be broken by hand but can be broken by a pick with a single firm blow; rock rings under hammer.
Very High (VH)	3 to 10	Hand specimen breaks after more than one blow; rock rings under hammer.
Extremely High (EH)	More than 10	Specimen requires many blows with geological pick to break through intact material; rock rings under hammer.

Notes on Rock Material Strength:

1. Material with strength less than 'Very Low' should be described using soil characteristics.
2. The method of measuring the $I_{s(50)}$ should be in accordance with AS 4133.4.2.
3. The rock strength should be determined perpendicular to any anisotropy in the rock. High strength anisotropic rocks may readily break parallel to the planar anisotropy.
4. Although AS1726:2017 provides a basis for rock strength terms based on Unconfined Compressive Strength (UCS), the ratio between UCS and $I_{s(50)}$ may vary from less than 10 to over 30 depending on the rock type and overall strength. The UCS/$I_{s(50)}$ strength ratio should be determined for each rock material.
5. The rock strength classification using $I_{s(50)}$ above should be considered indicative only. The rock strength classified in accordance with AS1726:2017 may be higher or lower if UCS results are available.

COMMON ROCK DEFECT TYPES

Term	Definition	Diagram	Map Symbol	Graphic Log (Note 1)
Parting	A surface or crack across which the rock has little or no tensile strength. Parallel or sub-parallel to layering (e.g. bedding) or a planar anisotropy in the rock material (e.g. cleavage). May be open or closed.			
Joint	A surface or crack with no apparent shear displacement and across which the rock has little or no tensile strength, but which is not parallel or sub-parallel to layering or to planar anisotropy in the rock material. May be open or closed.			
Sheared Zone/Seam (Note 3)	Zone of rock material with roughly parallel near planar, curved or undulating boundaries cut by closely spaced joints, sheared surfaces or other defects. Some of the defects are usually curved and intersect to divide the mass into lenticular or wedge shaped blocks.			
Sheared Surface (Note 3)	A near planar, curved or undulating surface which is usually smooth, polished or slickensided and which shows evidence of shear displacement.			
Crushed Seam (Note 3)	Seam of soil material with roughly parallel almost planar boundaries, composed of disoriented, usually angular fragments of the host rock material which may be more weathered than the host rock. The seam has soil properties.			
Infilled Seam	Seam of soil material usually with distinct roughly parallel boundaries formed by the migration of soil into an open cavity or joint, infilled seams up to 1mm thick may be described as veneer or coating on a joint surface.			
Extremely Weathered Seam	Seam of soil material, often with gradational boundaries. Formed by weathering of the rock material in place.			

Notes on Defects:

1. Usually borehole logs show the true dip of defects, and face sketches and sections show the apparent dip.
2. Partings and joints are not usually shown on the graphic log unless considered significant.
3. Sheared zones/seams, sheared surfaces and crushed seams are generally faults in geological terms.

DEFECT SHAPE TERMS

Planar	The defect does not vary in orientation
Curved	The defect has a gradual change in orientation
Undulating	The defect has a wavy surface
Stepped	The defect has one or more well defined steps
Irregular	The defect has many sharp changes of orientation

Note: The assessment of defect shape is partly influenced by the scale of the observation.

DEFECT ROUGHNESS TERMS

Very Rough	Many large surface irregularities (amplitude generally more than 1mm). Feels like, or coarser than very coarse sand paper.
Rough	Many small surface irregularities (amplitude generally less than 1mm). Feels like fine to coarse sand paper.
Smooth	Smooth to touch. Few or no surface irregularities.
Polished	Shiny smooth surface.
Slickensided	Grooved or striated surface, usually polished.

DEFECT COATING TERMS

Clean	No visible coating.
Stained	No visible coating but surfaces are discoloured.
Veneer	A visible coating of soil or mineral, too thin to measure; may be patchy.
Coating	A visible coating up to 1mm thick. Thicker soil material should be described using appropriate defect terms (e g. infilled seam). Thicker rock strength material should be described as a vein.

DIMENSION OF DEFECTS

Spacing, length, openness and thickness

The spacing, length, aperture (openness), and seam thickness should generally be described directly in millimetres or metres.

Block Shape

Where it is considered significant, block shape (e.g. tabular, prismatic, columnar) should be described using the terms in Table 23 of AS 1726:2017.

Table D1: Well Gauging Summary

Date	Time	Well ID	Easting	Northing	TOC (mAHD)	Standing Water Level (mbTOC)	RWL (mAHD)	Depth to NAPL (mbTOC)	LNAPL thickness (mm)	Well Diameter	Top of Screen (mbTOC)	Screen length (m)	Total Depth (mbTOC)	Comments
11/08/2025	08:42	BH01	327832.397	6240107.898	14.812	6.351	8.461	-	-	50	16.10	6.0	21.83	Nil
11/08/2025	08:56	BH02	327819.456	6240067.429	16.62	5.024	11.596	-	-	50	16.08	6.0	23.1	Nil
11/08/2025	09:07	BH03	327845.274	6240064.543	14.976	5.033	9.943	-	-	50	16.22	6.0	23.32	Nil

Notes:
Coordinate System: GDA94 Z55
mbTOC: metres below Top of Casing
mAHD: metres Australian Height Datum
N.O.:No Odour
N.S.: No Sheen

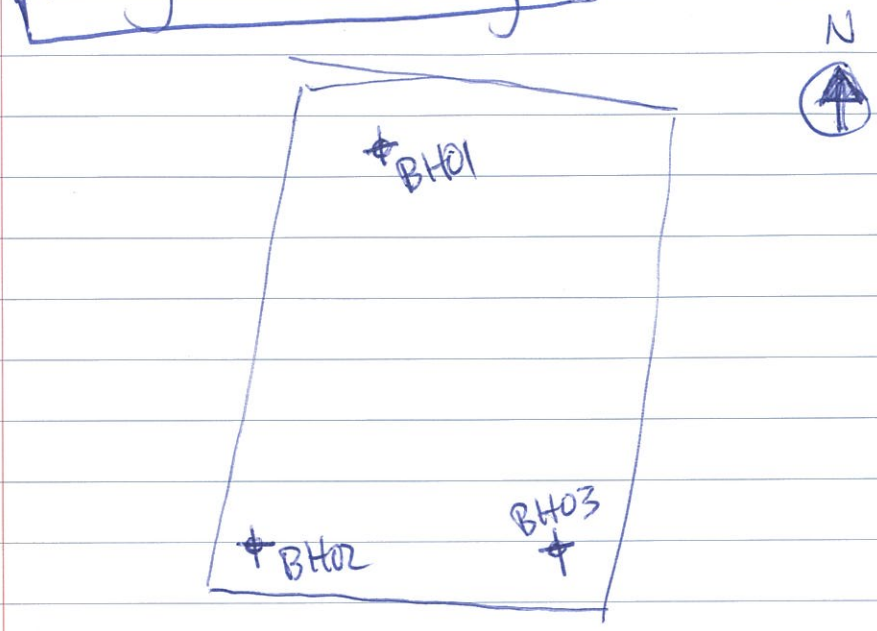
Table D2: Groundwater Quality Summary

Date	Time	Well ID	Standing Water Level (mbTOC)	TOC Elevation (mAHD)	Water Elevation (mAHD)	Temperature C	Dissolved Oxygen (mg/L)	Electrical Conductivity (uS/cm)	pH	Redox (mV)	Adjusted Redox*	Clarity	Comments
11/08/2025	08:42	BH01	6.351	14.812	8.461	19.3	0.78	1097	6.15	-107.5	92.5	Slightly cloudy	Pale grey, slight sulphurous odour
11/08/2025	08:56	BH02	5.024	16.62	11.596	20.2	3.4	386.8	5.92	-19.8	180.2	Clear	No colour, no odour
11/08/2025	09:07	BH03	5.033	14.976	9.943	19.2	0.68	608	6.21	-27.2	172.8	Cloudy	Pale brown, no odour

*Redox readings were adjusted as per manufacturer's recommendation. For a YSI Quatro Pro Plus with 3.5M Ag/AgCl probe, 200mV was added to convert the readings into standard hydrogen electrode (SHE) reference electrode.

St George Hospital 7 May 2025

Rising head testing.



BH01

depth to water 6.18m to TOC 8:55am
stickup 0.11m

base of well 21.83m

Water column = 21.8 - 6.2 = 15.6m

Well volume = ~~0.076² π × 15.6~~
4

= 1.9 × 15.6 = 30L

11 60L purged with bailer

depth to water 20.34m 9:51am.
logger installed with 21m length 10:00
depth to wate 19.45m 10:01am.

BH1 manual dips

10:04	19.22
10:05	19.16
10:06	19.085
10:07	19.02
10:08	18.96
10:09	18.88
11:54am	12.42m

BH2

depth to water 3.20m TOC 10:15am
well depth 23.1m
stickup 0.12m

Bailed 90L.

dip 14.81m	11:25
14.54m	1128am
14.41m	1130am
14.28m	1132am
14.18m	1134am
14.04m	1136am
13.91m	1138am

BH3

depth to water: 5.06m 10:20am
well depth: 23.32m
stickup: 0.07

Well vol. = (23-5) x 1.9L
= 34.2L.

~~Bailed 20L 10:35am~~
Bailed 63L 11:17am
well difficult to bail further,
sediment at bottom

dip 21.7m @ 11:19am
20.1m @ 11:41am.

Leave site
at 12pm

APPENDIX E: RESULT TABLES

Table E1 - Summary of Soil Results - Site Suitability				Asbestos	Metals													
					Arsenic		Cadmium		Chromium		Copper		Mercury		Nickel		Nickel (filtered)	
				g/kg	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/L	
EQL				**0.1**	**2**	**0.001**	**0.4**	**0.0001**	**2**	**0.001**	**5**	**0.001**	**0.1**	**0.0001**	**2**	**0.001**	**0.001**	
CRCCARE 2011, Table B4: HSL-DIntrusive Maintenance Worker				-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil				-	3,000	-	900	-	-	-	240,000	-	730	-	6,000	-	-	
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay				-	-	-	-	-	-	-	-	-	-	-	-	-	-	
>=0m, <1m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	
>=1m, <2m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	
>=2m, <4m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	
>=4m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil				-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sample Type	Field ID	Date	Lab Report Number															
Normal	BH101_0-0.1	11 Aug 2025	ES2524646	**No asbestos detected**	-	-	-	-	-	-	-	-	-	-	-	-	-	
Normal	BH101_0.9-1.0	11 Aug 2025	ES2524646	-	<5	-	<1	-	**5**	-	<5	-	<0.1	-	<2	-	-	
Normal	BH102_0-0.1	11 Aug 2025	ES2524646	**No asbestos detected**	<5	-	<1	-	**7**	-	**93**	-	<0.1	-	**52**	-	-	
Normal	BH102_0.4-0.5	11 Aug 2025	ES2524646	**No asbestos detected**	**9**	-	<1	-	**18**	-	**41**	-	**0.1**	-	**12**	-	-	
Normal	BH103-0.5-0.6	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Normal	BH103_0.1-0.2	11 Aug 2025	ES2524646	**No asbestos detected**	-	-	-	-	-	-	-	-	-	-	-	-	-	
Normal	BH103_0.7-0.8	11 Aug 2025	ES2524646	**No asbestos detected**	<5	-	<1	-	**10**	-	**15**	-	<0.1	-	**5**	-	-	
Normal	BH103-0.5-0.6	11 Aug 2025	ES2524646	**No asbestos detected**	**10**	-	<1	-	**22**	-	**1,010**	-	**2.1**	-	**36**	-	-	
Normal	BH104_0.2-0.3	11 Aug 2025	ES2524646	**No asbestos detected**	<5	-	<1	-	**16**	-	**32**	-	**0.3**	-	**17**	-	-	
Normal	BH104_0.3-0.4	11 Aug 2025	ES2524646	**No asbestos detected**	**7**	-	<1	-	**11**	-	**6**	-	<0.1	-	<2	-	-	
Normal	BH104_0.6-0.7	11 Aug 2025	ES2524646	**No asbestos detected**	-	-	-	-	-	-	-	-	-	-	-	-	-	
Normal	BH104_0.8-0.9	11 Aug 2025	ES2524646	-	<5	-	<1	-	**5**	-	<5	-	<0.1	-	<2	-	-	
Normal	BH105-1.1-1.2	11 Aug 2025	ES2524646	-	<5	-	<1	-	**11**	-	<5	-	<0.1	-	<2	-	-	
Normal	BH105_0.2-0.3	11 Aug 2025	ES2524646	**No asbestos detected**	**16**	-	<1	-	**9**	-	**87**	-	<0.1	-	**21**	-	-	
Normal	BH106_0.2-0.3	11 Aug 2025	ES2524646	**No asbestos detected**	**5**	-	<1	-	**11**	-	**56**	-	**0.1**	-	**15**	-	-	
Field_D	DUP2 Replicate of BH106/0.2-0.3	11 Aug 2025	ES2524646	-	**7**	-	<1	-	**19**	-	**46**	-	**0.1**	-	**15**	-	-	
Interlab_D	TRIP 2 Replicate of BH106/0.2-0.3	11 Aug 2025	1255551	-	**5.4**	-	<0.4	-	**17**	-	**140**	-	<0.1	-	**15**	-	-	
Normal	BH106_0.5-0.6	11 Aug 2025	ES2524646	**No asbestos detected**	**6**	-	<1	-	**13**	-	**12**	-	**0.3**	-	<2	-	-	
Normal	BH106_0.5-0.6	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Normal	BH107_0-0.1	11 Aug 2025	ES2524646	**No asbestos detected**	<5	-	<1	-	**38**	-	**37**	-	**0.1**	-	**36**	-	-	
Normal	BH107_0.2-0.3	11 Aug 2025	ES2524646	**No asbestos detected**	<5	-	<1	-	**7**	-	**10**	-	**0.5**	-	**4**	-	-	
Normal	BH108_0.1-0.2	11 Aug 2025	ES2524646	**No asbestos detected**	<5	-	<1	-	**12**	-	**15**	-	**0.1**	-	**5**	-	-	
Normal	BH108_0.5-0.6	11 Aug 2025	ES2524646	**No asbestos detected**	**6**	-	<1	-	**13**	-	**6**	-	**0.1**	-	**3**	-	-	
Normal	BH109_0-0.1	11 Aug 2025	ES2524646	**No asbestos detected**	<5	-	<1	-	**115**	-	**30**	-	**0.1**	-	**101**	-	-	
Normal	BH109_0-0.1	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	
Normal	BH109_0.3-0.4	11 Aug 2025	ES2524646	**No asbestos detected**	<5	-	<1	-	**18**	-	**16**	-	**0.1**	-	**14**	-	-	
Normal	BH110_0.0-0.1	11 Aug 2025	ES2526307	**No asbestos detected**	<5	-	<1	-	**40**	-	**28**	-	**0.1**	-	**41**	-	-	
Normal	BH110_0.3-0.4	11 Aug 2025	ES2526307	**No asbestos detected**	<5	-	<1	-	**11**	-	**6**	-	<0.1	-	**4**	-	-	
Trip_B	Trip Blank	04 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trip_B	Trip Blank	04 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Rinsate	Rinsate 1	11 Aug 2025	ES2524646	-	-	<0.001	-	<0.0001	-	<0.001	-	<0.001	-	<0.0001	-	<0.001	-	

Table E1 - Summary of Soil Results - Site Suitability																							
														BTEX									
				Silver		Lead		Lead (filtered)		Zinc		Benzene		Ethylbenzene		Toluene		Xylenes Total		Xylene (o)	
				mg/kg	mg/L	mg/kg	mg/L	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L		
EQL				**2**	**0.001**	**5**	**0.001**	**0.001**	**5**	**0.005**	**0.1**	**0.001**	**0.1**	**0.001**	**0.1**	**0.001**	**0.3**	**0.002**	**0.1**	**0.001**		
CRCCARE 2011, Table B4: HSL-DIntrusive Maintenance Worker				-	-	-	-	-	-	-	1,100	-	85,000	-	120,000	-	130,000	-	-	-		
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil				-	-	1,500	-	-	400,000	-	-	-	-	-	-	-	-	-	-	-		
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay				-	-	-	-	-	-	-	4 | 6 | 9 | 20	-	-	-	-	-	-	-	-	-		
>=0m, <1m				-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-		
>=1m, <2m				-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-		
>=2m, <4m				-	-	-	-	-	-	-	9	-	-	-	-	-	-	-	-	-		
>=4m				-	-	-	-	-	-	-	20	-	-	-	-	-	-	-	-	-		
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Sample Type	Field ID	Date	Lab Report Number																			
Normal	BH101_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Normal	BH101_0.9-1.0	11 Aug 2025	ES2524646	<2	-	**14**	-	-	**6**	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-		
Normal	BH102_0-0.1	11 Aug 2025	ES2524646	**5**	-	<5	-	-	**29**	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-		
Normal	BH102_0.4-0.5	11 Aug 2025	ES2524646	<2	-	**111**	-	-	**112**	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-		
Normal	BH103-0.5-0.6	11 Aug 2025	ES2526307	-	-	-	-	**0.5**	-	-	-	-	-	-	-	-	-	-	-	-		
Normal	BH103_0.1-0.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Normal	BH103_0.7-0.8	11 Aug 2025	ES2524646	<2	-	**15**	-	-	**28**	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-		
Normal	BH103-0.5-0.6	11 Aug 2025	ES2524646	<2	-	**453**	-	-	**568**	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-		
Normal	BH104_0.2-0.3	11 Aug 2025	ES2524646	<2	-	**157**	-	-	**239**	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-		
Normal	BH104_0.3-0.4	11 Aug 2025	ES2524646	<2	-	**46**	-	-	**43**	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-		
Normal	BH104_0.6-0.7	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Normal	BH104_0.8-0.9	11 Aug 2025	ES2524646	<2	-	**16**	-	-	**13**	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-		
Normal	BH105-1.1-1.2	11 Aug 2025	ES2524646	<2	-	**8**	-	-	<5	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-		
Normal	BH105_0.2-0.3	11 Aug 2025	ES2524646	<2	-	**47**	-	-	**194**	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-		
Normal	BH106_0.2-0.3	11 Aug 2025	ES2524646	<2	-	**86**	-	-	**343**	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-		
Field_D	DUP2 Replicate of BH106/0.2-0.3	11 Aug 2025	ES2524646	<2	-	**157**	-	-	**2,770**	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-		
Interlab_D	TRIP 2 Replicate of BH106/0.2-0.3	11 Aug 2025	1255551	<2	-	**110**	-	-	**2,700**	-	<0.1	-	<0.1	-	<0.1	-	<0.3	-	<0.1	-		
Normal	BH106_0.5-0.6	11 Aug 2025	ES2524646	<2	-	**200**	-	-	**100**	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-		
Normal	BH106_0.5-0.6	11 Aug 2025	ES2526307	-	-	-	-	**0.7**	-	-	-	-	-	-	-	-	-	-	-	-		
Normal	BH107_0-0.1	11 Aug 2025	ES2524646	<2	-	**134**	-	-	**102**	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-		
Normal	BH107_0.2-0.3	11 Aug 2025	ES2524646	<2	-	**130**	-	-	**91**	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-		
Normal	BH108_0.1-0.2	11 Aug 2025	ES2524646	<2	-	**112**	-	-	**75**	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-		
Normal	BH108_0.5-0.6	11 Aug 2025	ES2524646	<2	-	**38**	-	-	**32**	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-		
Normal	BH109_0-0.1	11 Aug 2025	ES2524646	<2	-	**49**	-	-	**64**	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-		
Normal	BH109_0-0.1	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Normal	BH109_0.3-0.4	11 Aug 2025	ES2524646	<2	-	**61**	-	-	**89**	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-		
Normal	BH110_0.0-0.1	11 Aug 2025	ES2526307	**3**	-	**157**	-	-	**92**	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-		
Normal	BH110_0.3-0.4	11 Aug 2025	ES2526307	<2	-	**40**	-	-	**32**	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-		
Trip_B	Trip Blank	04 Aug 2025	ES2524646	-	-	-	-	-	-	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-		
Trip_B	Trip Blank	04 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	<0.001	-	<0.002	-	<0.002	-	<0.002	-	<0.002		
Rinsate	Rinsate 1	11 Aug 2025	ES2524646	-	<0.001	-	<0.001	-	-	<0.005	-	<0.001	-	<0.002	-	<0.002	-	<0.002	-	<0.002		

Table E1 - Summary of Soil Results - Site Suitability										Monocyclic Aromatic Hydrocarbons											
				Xylenes (m & p)		Total BTEX		Naphthalene (VOC)	Naphthalene (VOC)	1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		n-Butylbenzene		iso-Propylbenzene (cumene)		n-Propylbenzene		sec-Butylbenzene	
				mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
EQL				**0.2**	**0.002**	**0.2**	**0.001**	**0.5**	**0.005**	**0.5**	**0.001**	**0.5**	**0.001**	**0.5**	**0.005**	**0.5**	**0.001**	**0.5**	**0.005**	**0.5**	**0.005**
CRCCARE 2011, Table B4: HSL-DIntrusive Maintenance Worker				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=0m, <1m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=1m, <2m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=2m, <4m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=4m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sample Type	Field ID	Date	Lab Report Number																		
Normal	BH101_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH101_0.9-1.0	11 Aug 2025	ES2524646	<0.5	-	<0.2	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH102_0-0.1	11 Aug 2025	ES2524646	<0.5	-	<0.2	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH102_0.4-0.5	11 Aug 2025	ES2524646	<0.5	-	<0.2	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103-0.5-0.6	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103_0.1-0.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103_0.7-0.8	11 Aug 2025	ES2524646	<0.5	-	<0.2	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103-0.5-0.6	11 Aug 2025	ES2524646	<0.5	-	<0.2	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.2-0.3	11 Aug 2025	ES2524646	<0.5	-	<0.2	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.3-0.4	11 Aug 2025	ES2524646	<0.5	-	<0.2	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.6-0.7	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.8-0.9	11 Aug 2025	ES2524646	<0.5	-	<0.2	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH105-1.1-1.2	11 Aug 2025	ES2524646	<0.5	-	<0.2	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH105_0.2-0.3	11 Aug 2025	ES2524646	<0.5	-	<0.2	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH106_0.2-0.3	11 Aug 2025	ES2524646	<0.5	-	<0.2	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-
Field_D	DUP2 Replicate of BH106/0.2-0.3	11 Aug 2025	ES2524646	<0.5	-	<0.2	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-
Interlab_D	TRIP 2 Replicate of BH106/0.2-0.3	11 Aug 2025	1255551	<0.2	-	-	-	<0.5	-	<0.5	-	<0.5	-	-	-	<0.5	-	-	-	-	-
Normal	BH106_0.5-0.6	11 Aug 2025	ES2524646	<0.5	-	<0.2	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH106_0.5-0.6	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH107_0-0.1	11 Aug 2025	ES2524646	<0.5	-	<0.2	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH107_0.2-0.3	11 Aug 2025	ES2524646	<0.5	-	<0.2	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH108_0.1-0.2	11 Aug 2025	ES2524646	<0.5	-	<0.2	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH108_0.5-0.6	11 Aug 2025	ES2524646	<0.5	-	<0.2	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH109_0-0.1	11 Aug 2025	ES2524646	<0.5	-	<0.2	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH109_0-0.1	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH109_0.3-0.4	11 Aug 2025	ES2524646	<0.5	-	<0.2	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH110_0.0-0.1	11 Aug 2025	ES2526307	<0.5	-	<0.2	-	<1	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH110_0.3-0.4	11 Aug 2025	ES2526307	<0.5	-	<0.2	-	<1	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Trip_B	Trip Blank	04 Aug 2025	ES2524646	<0.5	-	<0.2	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-
Trip_B	Trip Blank	04 Aug 2025	ES2524646	-	<0.002	-	<0.001	-	<0.005	-	-	-	-	-	-	-	-	-	-	-	-
Rinsate	Rinsate 1	11 Aug 2025	ES2524646	-	<0.002	-	<0.001	-	<0.005	-	<0.005	-	<0.005	-	<0.005	-	<0.005	-	<0.005	-	<0.005

Table E1 - Summary of Soil Results - Site Suitability

				tert-Butylbenzene		Styrene		p-Isopropyltoluene		p-Isopropyltoluene		Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ calc (Zero)		Anthracene		Pyrene		Benzo(g,h,i)perylene		Indeno(1,2,3-c,d)pyrene	
				mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
EQL				**0.5**	**0.005**	**0.5**	**0.001**	**0.5**	**0.005**	**0.5**	**0.5**	**0.5**	**0.5**	**0.0005**	**0.5**	**0.001**	**0.5**	**0.001**	**0.5**	**0.001**	**0.5**	**0.001**	
CRCCARE 2011, Table B4: HSL-DIntrusive Maintenance Worker				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil				-	-	-	-	-	-	-	40	40	40	-	-	-	-	-	-	-	-	-	
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
>=0m, <1m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
>=1m, <2m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
>=2m, <4m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
>=4m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sample Type	Field ID	Date	Lab Report Number																				
Normal	BH101_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Normal	BH101_0.9-1.0	11 Aug 2025	ES2524646	-	-	-	-	-	-	**1.2**	**0.6**	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH102_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	**1.2**	**0.6**	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH102_0.4-0.5	11 Aug 2025	ES2524646	-	-	-	-	-	-	**1.2**	**0.9**	**0.6**	-	<0.5	-	**1.1**	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH103-0.5-0.6	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103_0.1-0.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103_0.7-0.8	11 Aug 2025	ES2524646	-	-	-	-	-	-	**1.2**	**0.6**	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH103-0.5-0.6	11 Aug 2025	ES2524646	-	-	-	-	-	-	**1.2**	**0.6**	<0.5	-	<0.5	-	**0.9**	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH104_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	**1.7**	**1.4**	**1.1**	-	<0.5	-	**1.9**	-	**0.6**	-	<0.5	-	<0.5	-
Normal	BH104_0.3-0.4	11 Aug 2025	ES2524646	-	-	-	-	-	-	**1.2**	**0.6**	<0.5	-	<0.5	-	**0.6**	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH104_0.6-0.7	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.8-0.9	11 Aug 2025	ES2524646	-	-	-	-	-	-	**1.2**	**0.6**	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH105-1.1-1.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	**1.2**	**0.6**	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH105_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	**1.2**	**0.6**	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH106_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	**1.2**	**0.9**	**0.6**	-	<0.5	-	**1.1**	-	<0.5	-	<0.5	-	<0.5	-
Field_D	DUP2 Replicate of BH106/0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	**1.6**	**1.3**	**1.0**	-	<0.5	-	**1.2**	-	**0.6**	-	<0.5	-	<0.5	-
Interlab_D	TRIP 2 Replicate of BH106/0.2-0.3	11 Aug 2025	1255551	-	-	<0.5	-	-	-	**1.2**	**0.6**	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH106_0.5-0.6	11 Aug 2025	ES2524646	-	-	-	-	-	-	**2.0**	**1.7**	**1.4**	-	<0.5	-	**2.0**	-	**0.8**	-	**0.6**	-	<0.5	-
Normal	BH106_0.5-0.6	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH107_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	**1.7**	**1.5**	**1.2**	-	<0.5	-	**1.2**	-	**0.8**	-	**0.6**	-	<0.5	-
Normal	BH107_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	**1.2**	**0.9**	**0.6**	-	<0.5	-	**0.7**	-	**0.5**	-	<0.5	-	<0.5	-
Normal	BH108_0.1-0.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	**1.2**	**0.6**	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH108_0.5-0.6	11 Aug 2025	ES2524646	-	-	-	-	-	-	**1.2**	**0.6**	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH109_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	**1.2**	**0.6**	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH109_0-0.1	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH109_0.3-0.4	11 Aug 2025	ES2524646	-	-	-	-	-	-	**1.2**	**0.6**	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH110_0.0-0.1	11 Aug 2025	ES2526307	<0.5	-	<0.5	-	<0.5	-	**1.4**	**1.1**	**0.8**	-	<0.5	-	**0.9**	-	**0.7**	-	<0.5	-	<0.5	-
Normal	BH110_0.3-0.4	11 Aug 2025	ES2526307	<0.5	-	<0.5	-	<0.5	-	**1.2**	**0.6**	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Trip_B	Trip Blank	04 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trip_B	Trip Blank	04 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rinsate	Rinsate 1	11 Aug 2025	ES2524646	-	<0.005	-	<0.005	-	<0.005	-	-	-	-	<0.0005	-	<0.0010	-	<0.0010	-	<0.0010	-	<0.0010	

Table E1 - Summary of Soil Results - Site Suitability				Polycyclic Aromatic Hydrocarbons																	
				Benzo(b+j)fluoranthene		Fluoranthene		Benzo(k)fluoranthene		Acenaphthylene		Chrysene		Benzo(a) pyrene		Dibenz(a,h)anthracene		Benz(a)anthracene		Acenaphthene	
				mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
EQL				**0.5**	**0.001**	**0.5**	**0.001**	**0.5**	**0.001**	**0.5**	**0.001**	**0.5**	**0.001**	**0.5**	**0.0005**	**0.5**	**0.001**	**0.5**	**0.001**	**0.5**	**0.001**
CRCCARE 2011, Table B4: HSL-DIntrusive Maintenance Worker				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=0m, <1m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=1m, <2m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=2m, <4m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=4m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sample Type	Field ID	Date	Lab Report Number																		
Normal	BH101_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH101_0.9-1.0	11 Aug 2025	ES2524646	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH102_0-0.1	11 Aug 2025	ES2524646	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH102_0.4-0.5	11 Aug 2025	ES2524646	**0.7**	-	**1.2**	-	<0.5	-	<0.5	-	<0.5	-	**0.5**	-	<0.5	-	**0.5**	-	<0.5	-
Normal	BH103-0.5-0.6	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103_0.1-0.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103_0.7-0.8	11 Aug 2025	ES2524646	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH103-0.5-0.6	11 Aug 2025	ES2524646	<0.5	-	**0.9**	-	**0.5**	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH104_0.2-0.3	11 Aug 2025	ES2524646	**1.1**	-	**1.7**	-	<0.5	-	<0.5	-	**0.6**	-	**0.9**	-	<0.5	-	**0.9**	-	<0.5	-
Normal	BH104_0.3-0.4	11 Aug 2025	ES2524646	<0.5	-	**0.7**	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH104_0.6-0.7	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.8-0.9	11 Aug 2025	ES2524646	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH105-1.1-1.2	11 Aug 2025	ES2524646	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH105_0.2-0.3	11 Aug 2025	ES2524646	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH106_0.2-0.3	11 Aug 2025	ES2524646	**0.7**	-	**1.1**	-	<0.5	-	<0.5	-	<0.5	-	**0.5**	-	<0.5	-	<0.5	-	<0.5	-
Field_D	DUP2 Replicate of BH106/0.2-0.3	11 Aug 2025	ES2524646	**1.0**	-	**1.2**	-	<0.5	-	<0.5	-	<0.5	-	**0.8**	-	<0.5	-	**0.6**	-	<0.5	-
Interlab_D	TRIP 2 Replicate of BH106/0.2-0.3	11 Aug 2025	1255551	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH106_0.5-0.6	11 Aug 2025	ES2524646	**1.9**	-	**2.2**	-	**0.7**	-	**0.7**	-	**0.9**	-	**1.0**	-	<0.5	-	**1.2**	-	<0.5	-
Normal	BH106_0.5-0.6	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH107_0-0.1	11 Aug 2025	ES2524646	**1.9**	-	**1.2**	-	**0.6**	-	<0.5	-	**0.9**	-	**0.8**	-	<0.5	-	**1.1**	-	<0.5	-
Normal	BH107_0.2-0.3	11 Aug 2025	ES2524646	**0.8**	-	**0.7**	-	<0.5	-	<0.5	-	<0.5	-	**0.5**	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH108_0.1-0.2	11 Aug 2025	ES2524646	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH108_0.5-0.6	11 Aug 2025	ES2524646	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH109_0-0.1	11 Aug 2025	ES2524646	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH109_0-0.1	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH109_0.3-0.4	11 Aug 2025	ES2524646	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH110_0.0-0.1	11 Aug 2025	ES2526307	**0.8**	-	**0.9**	-	<0.5	-	<0.5	-	**0.6**	-	**0.7**	-	<0.5	-	**0.5**	-	<0.5	-
Normal	BH110_0.3-0.4	11 Aug 2025	ES2526307	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Trip_B	Trip Blank	04 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trip_B	Trip Blank	04 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rinsate	Rinsate 1	11 Aug 2025	ES2524646	-	<0.0010	-	<0.0010	-	<0.0010	-	<0.0010	-	<0.0010	-	<0.0005	-	<0.0010	-	<0.0010	-	<0.0010

Table E1 - Summary of Soil Results - Site Suitability												Total Recoverable Hydrocarbons									
				Phenanthrene		Fluorene		PAHs (Sum of total)		Naphthalene	Naphthalene	F1 (C6-C10)		F1 (C6-C10) less BTEX		F2 (C10-C16 Hydrocarbons)		F3 (C16-C34 Hydrocarbons)		C34-C40	
				mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
EQL				**0.5**	**0.001**	**0.5**	**0.001**	**0.5**	**0.0005**	**0.5**	**0.001**	**10**	**0.02**	**10**	**0.02**	**50**	**0.05**	**100**	**0.1**	**100**	**0.1**
CRCCARE 2011, Table B4: HSL-DIntrusive Maintenance Worker				-	-	-	-	-	-	29,000	-	-	-	82,000	-	62,000	-	85,000	-	120,000	-
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil				-	-	-	-	4,000	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay				-	-	-	-	-	-	-	-	-	-	310 | 480	-	-	-	-	-	-	-
>=0m, <1m				-	-	-	-	-	-	-	-	-	-	310	-	-	-	-	-	-	-
>=1m, <2m				-	-	-	-	-	-	-	-	-	-	480	-	-	-	-	-	-	-
>=2m, <4m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=4m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil				-	-	-	-	-	-	-	-	800	-	-	-	1,000	-	5,000	-	10,000	-
Sample Type	Field ID	Date	Lab Report Number																		
Normal	BH101_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH101_0.9-1.0	11 Aug 2025	ES2524646	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<10	-	<10	-	<50	-	<100	-	<100	-
Normal	BH102_0-0.1	11 Aug 2025	ES2524646	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<10	-	<10	-	<50	-	<100	-	<100	-
Normal	BH102_0.4-0.5	11 Aug 2025	ES2524646	**0.6**	-	<0.5	-	**4.6**	-	<0.5	-	<10	-	<10	-	<50	-	<100	-	<100	-
Normal	BH103-0.5-0.6	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103_0.1-0.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103_0.7-0.8	11 Aug 2025	ES2524646	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<10	-	<10	-	<50	-	<100	-	<100	-
Normal	BH103-0.5-0.6	11 Aug 2025	ES2524646	**0.6**	-	<0.5	-	**2.9**	-	<0.5	-	<10	-	<10	-	<50	-	**220**	-	<100	-
Normal	BH104_0.2-0.3	11 Aug 2025	ES2524646	**0.7**	-	<0.5	-	**8.4**	-	<0.5	-	<10	-	<10	-	<50	-	<100	-	<100	-
Normal	BH104_0.3-0.4	11 Aug 2025	ES2524646	<0.5	-	<0.5	-	**1.3**	-	<0.5	-	<10	-	<10	-	<50	-	<100	-	<100	-
Normal	BH104_0.6-0.7	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.8-0.9	11 Aug 2025	ES2524646	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<10	-	<10	-	<50	-	<100	-	<100	-
Normal	BH105-1.1-1.2	11 Aug 2025	ES2524646	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<10	-	<10	-	<50	-	<100	-	<100	-
Normal	BH105_0.2-0.3	11 Aug 2025	ES2524646	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<10	-	<10	-	<50	-	<100	-	<100	-
Normal	BH106_0.2-0.3	11 Aug 2025	ES2524646	**0.5**	-	<0.5	-	**3.9**	-	<0.5	-	<10	-	<10	-	<50	-	<100	-	<100	-
Field_D	DUP2 Replicate of BH106/0.2-0.3	11 Aug 2025	ES2524646	<0.5	-	<0.5	-	**5.4**	-	<0.5	-	<10	-	<10	-	<50	-	<100	-	<100	-
Interlab_D	TRIP 2 Replicate of BH106/0.2-0.3	11 Aug 2025	1255551	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<20	-	<20	-	<50	-	<100	-	<100	-
Normal	BH106_0.5-0.6	11 Aug 2025	ES2524646	**0.8**	-	<0.5	-	**12.8**	-	<0.5	-	<10	-	<10	-	<50	-	**110**	-	<100	-
Normal	BH106_0.5-0.6	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH107_0-0.1	11 Aug 2025	ES2524646	<0.5	-	<0.5	-	**9.1**	-	<0.5	-	<10	-	<10	-	<50	-	**120**	-	**110**	-
Normal	BH107_0.2-0.3	11 Aug 2025	ES2524646	<0.5	-	<0.5	-	**3.2**	-	<0.5	-	<10	-	<10	-	<50	-	<100	-	<100	-
Normal	BH108_0.1-0.2	11 Aug 2025	ES2524646	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<10	-	<10	-	<50	-	<100	-	<100	-
Normal	BH108_0.5-0.6	11 Aug 2025	ES2524646	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<10	-	<10	-	<50	-	<100	-	<100	-
Normal	BH109_0-0.1	11 Aug 2025	ES2524646	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<10	-	<10	-	<50	-	<100	-	<100	-
Normal	BH109_0-0.1	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH109_0.3-0.4	11 Aug 2025	ES2524646	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<10	-	<10	-	<50	-	**110**	-	**100**	-
Normal	BH110_0.0-0.1	11 Aug 2025	ES2526307	<0.5	-	<0.5	-	**5.1**	-	<0.5	-	<10	-	<10	-	<50	-	**120**	-	<100	-
Normal	BH110_0.3-0.4	11 Aug 2025	ES2526307	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<10	-	<10	-	<50	-	<100	-	<100	-
Trip_B	Trip Blank	04 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	-
Trip_B	Trip Blank	04 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	<0.02	-	<0.02	-	-	-	-	-	-
Rinsate	Rinsate 1	11 Aug 2025	ES2524646	-	<0.0010	-	<0.0010	-	<0.0005	-	<0.0010	-	<0.02	-	<0.02	-	<0.1	-	<0.1	-	<0.1

Table E1 - Summary of Soil Results - Site Suitability																							
									Total Petroleum Hydrocarbons														
				C10 - C40 (Sum of total)		F2 C10-C16 (minus Naphthalene)		F2 C10-C16 (minus Naphthalene)		C6 - C9		C10 - C14		C15 - C28		C29-C36		+C10 - C36 (Sum of total)		+C10 - C36 (Sum of total)		1,1,1,2-tetrachloroethane		1,1,1-trichloroethane	
				mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
EQL				**50**	**0.1**	**50**	**0.05**	**10**	**0.02**	**20**	**0.05**	**50**	**0.1**	**50**	**0.05**	**50**	**0.05**	**50**	**0.05**	**0.5**	**0.001**	**0.5**	**0.001**
CRCCARE 2011, Table B4: HSL-DIntrusive Maintenance Worker				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=0m, <1m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=1m, <2m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=2m, <4m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=4m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sample Type	Field ID	Date	Lab Report Number																				
Normal	BH101_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH101_0.9-1.0	11 Aug 2025	ES2524646	<50	-	<50	-	<10	-	<50	-	<100	-	<100	-	<100	-	<50	-	-	-	-	-
Normal	BH102_0-0.1	11 Aug 2025	ES2524646	<50	-	<50	-	<10	-	<50	-	<100	-	<100	-	<100	-	<50	-	-	-	-	-
Normal	BH102_0.4-0.5	11 Aug 2025	ES2524646	<50	-	<50	-	<10	-	<50	-	<100	-	<100	-	<100	-	<50	-	-	-	-	-
Normal	BH103-0.5-0.6	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103_0.1-0.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103_0.7-0.8	11 Aug 2025	ES2524646	<50	-	<50	-	<10	-	<50	-	<100	-	<100	-	<50	-	-	-	-	-	-	-
Normal	BH103-0.5-0.6	11 Aug 2025	ES2524646	**220**	-	<50	-	<10	-	<50	-	**150**	-	**110**	-	**260**	-	-	-	-	-	-	-
Normal	BH104_0.2-0.3	11 Aug 2025	ES2524646	<50	-	<50	-	<10	-	<50	-	<100	-	<100	-	<50	-	-	-	-	-	-	-
Normal	BH104_0.3-0.4	11 Aug 2025	ES2524646	<50	-	<50	-	<10	-	<50	-	<100	-	<100	-	<50	-	-	-	-	-	-	-
Normal	BH104_0.6-0.7	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.8-0.9	11 Aug 2025	ES2524646	<50	-	<50	-	<10	-	<50	-	<100	-	<100	-	<50	-	-	-	-	-	-	-
Normal	BH105-1.1-1.2	11 Aug 2025	ES2524646	<50	-	<50	-	<10	-	<50	-	<100	-	<100	-	<50	-	-	-	-	-	-	-
Normal	BH105_0.2-0.3	11 Aug 2025	ES2524646	<50	-	<50	-	<10	-	<50	-	<100	-	<100	-	<50	-	-	-	-	-	-	-
Normal	BH106_0.2-0.3	11 Aug 2025	ES2524646	<50	-	<50	-	<10	-	<50	-	<100	-	<100	-	<50	-	-	-	-	-	-	-
Field_D	DUP2 Replicate of BH106/0.2-0.3	11 Aug 2025	ES2524646	<50	-	<50	-	<10	-	<50	-	<100	-	<100	-	<50	-	-	-	-	-	-	-
Interlab_D	TRIP 2 Replicate of BH106/0.2-0.3	11 Aug 2025	1255551	<100	-	<50	-	<20	-	<20	-	<50	-	<50	-	<50	-	-	-	<0.5	-	<0.5	-
Normal	BH106_0.5-0.6	11 Aug 2025	ES2524646	**110**	-	<50	-	<10	-	<50	-	<100	-	<100	-	<50	-	-	-	-	-	-	-
Normal	BH106_0.5-0.6	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH107_0-0.1	11 Aug 2025	ES2524646	**230**	-	<50	-	<10	-	<50	-	<100	-	**100**	-	**100**	-	-	-	-	-	-	-
Normal	BH107_0.2-0.3	11 Aug 2025	ES2524646	<50	-	<50	-	<10	-	<50	-	<100	-	<100	-	<50	-	-	-	-	-	-	-
Normal	BH108_0.1-0.2	11 Aug 2025	ES2524646	<50	-	<50	-	<10	-	<50	-	<100	-	<100	-	<50	-	-	-	-	-	-	-
Normal	BH108_0.5-0.6	11 Aug 2025	ES2524646	<50	-	<50	-	<10	-	<50	-	<100	-	<100	-	<50	-	-	-	-	-	-	-
Normal	BH109_0-0.1	11 Aug 2025	ES2524646	<50	-	<50	-	<10	-	<50	-	<100	-	<100	-	<50	-	-	-	-	-	-	-
Normal	BH109_0-0.1	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH109_0.3-0.4	11 Aug 2025	ES2524646	**210**	-	<50	-	<10	-	<50	-	<100	-	<100	-	<50	-	-	-	-	-	-	-
Normal	BH110_0.0-0.1	11 Aug 2025	ES2526307	**120**	-	<50	-	<10	-	<50	-	<100	-	<100	-	<50	-	<0.5	-	<0.5	-		
Normal	BH110_0.3-0.4	11 Aug 2025	ES2526307	<50	-	<50	-	<10	-	<50	-	<100	-	<100	-	<50	-	<0.5	-	<0.5	-		
Trip_B	Trip Blank	04 Aug 2025	ES2524646	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trip_B	Trip Blank	04 Aug 2025	ES2524646	-	-	-	-	-	<0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rinsate	Rinsate 1	11 Aug 2025	ES2524646	-	<0.1	-	<0.1	-	<0.02	-	<0.05	-	<0.1	-	<0.05	-	<0.05	-	<0.005	-	<0.005		

Table E1 - Summary of Soil Results - Site Suitability

				1,1,2,2-tetrachloroethane		1,1-dichloroethane		1,1-dichloroethene		1,1-dichloropropene		1,2,3-trichloropropane		1,2-dibromo-3-chloropropane		1,2-dichloroethane		1,2-dichloropropane		1,1,2-trichloroethane	
				mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
EQL				**0.5**	**0.001**	**0.5**	**0.001**	**0.5**	**0.001**	**0.5**	**0.005**	**0.5**	**0.001**	**0.5**	**0.005**	**0.5**	**0.001**	**0.5**	**0.001**	**0.5**	**0.001**
CRCCARE 2011, Table B4: HSL-DIntrusive Maintenance Worker				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=0m, <1m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=1m, <2m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=2m, <4m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=4m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sample Type	Field ID	Date	Lab Report Number																		
Normal	BH101_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH101_0.9-1.0	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH102_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH102_0.4-0.5	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103-0.5-0.6	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103_0.1-0.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103_0.7-0.8	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103-0.5-0.6	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.3-0.4	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.6-0.7	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.8-0.9	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH105-1.1-1.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH105_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH106_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field_D	DUP2 Replicate of BH106/0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Interlab_D	TRIP 2 Replicate of BH106/0.2-0.3	11 Aug 2025	1255551	<0.5	-	<0.5	-	<0.5	-	-	-	<0.5	-	-	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH106_0.5-0.6	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH106_0.5-0.6	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH107_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH107_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH108_0.1-0.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH108_0.5-0.6	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH109_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH109_0-0.1	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH109_0.3-0.4	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH110_0.0-0.1	11 Aug 2025	ES2526307	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH110_0.3-0.4	11 Aug 2025	ES2526307	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Trip_B	Trip Blank	04 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trip_B	Trip Blank	04 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rinsate	Rinsate 1	11 Aug 2025	ES2524646	-	<0.005	-	<0.005	-	<0.005	-	<0.005	-	<0.005	-	<0.005	-	<0.005	-	<0.005	-	<0.005

Table E1 - Summary of Soil Results - Site Suitability				Chlorinated Hydrocarbons																	
				2,2-dichloropropane		Bromochloromethane		Bromodichloromethane		Bromoform		Carbon tetrachloride		Chlorodibromomethane		Chloroethane		1,3-dichloropropane		Chloroform	
				mg/kg	mg/L	mg/L	mg/kg	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
EQL				**0.5**	**0.005**	**0.001**	**0.5**	**0.5**	**0.001**	**0.5**	**0.001**	**0.5**	**0.001**	**0.5**	**0.001**	**0.5**	**0.005**	**0.5**	**0.001**	**0.5**	**0.005**
CRCCARE 2011, Table B4: HSL-DIntrusive Maintenance Worker				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=0m, <1m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=1m, <2m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=2m, <4m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=4m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sample Type	Field ID	Date	Lab Report Number																		
Normal	BH101_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH101_0.9-1.0	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH102_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH102_0.4-0.5	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103-0.5-0.6	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103_0.1-0.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103_0.7-0.8	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103-0.5-0.6	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.3-0.4	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.6-0.7	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.8-0.9	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH105-1.1-1.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH105_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH106_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field_D	DUP2 Replicate of BH106/0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Interlab_D	TRIP 2 Replicate of BH106/0.2-0.3	11 Aug 2025	1255551	-	-	-	<0.5	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH106_0.5-0.6	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH106_0.5-0.6	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH107_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH107_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH108_0.1-0.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH108_0.5-0.6	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH109_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH109_0-0.1	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH109_0.3-0.4	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH110_0.0-0.1	11 Aug 2025	ES2526307	<0.5	-	-	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<5	-	<0.5	-	<0.5	-
Normal	BH110_0.3-0.4	11 Aug 2025	ES2526307	<0.5	-	-	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<5	-	<0.5	-	<0.5	-
Trip_B	Trip Blank	04 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trip_B	Trip Blank	04 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rinsate	Rinsate 1	11 Aug 2025	ES2524646	-	<0.005	-	-	-	<0.005	-	<0.005	-	<0.005	-	<0.005	-	<0.05	-	<0.005	-	<0.005

Table E1 - Summary of Soil Results - Site Suitability

				Chloromethane		cis-1,2-dichloroethene		cis-1,3-dichloropropene		Dibromomethane		Dichloromethane		Hexachlorobutadiene		Tetrachloroethene		trans-1,2-dichloroethene		trans-1,3-dichloropropene	
				mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/L	mg/kg	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
EQL				**0.5**	**0.005**	**0.5**	**0.001**	**0.5**	**0.001**	**0.5**	**0.001**	**0.005**	**0.5**	**0.5**	**0.005**	**0.5**	**0.001**	**0.5**	**0.001**	**0.5**	**0.001**
CRCCARE 2011, Table B4: HSL-DIntrusive Maintenance Worker				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=0m, <1m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=1m, <2m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=2m, <4m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=4m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sample Type	Field ID	Date	Lab Report Number																		
Normal	BH101_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH101_0.9-1.0	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH102_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH102_0.4-0.5	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103-0.5-0.6	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103_0.1-0.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103_0.7-0.8	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103-0.5-0.6	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.3-0.4	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.6-0.7	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.8-0.9	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH105-1.1-1.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH105_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH106_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field_D	DUP2 Replicate of BH106/0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Interlab_D	TRIP 2 Replicate of BH106/0.2-0.3	11 Aug 2025	1255551	<0.5	-	<0.5	-	<0.5	-	<0.5	-	-	<0.5	-	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH106_0.5-0.6	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH106_0.5-0.6	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH107_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH107_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH108_0.1-0.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH108_0.5-0.6	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH109_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH109_0-0.1	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH109_0.3-0.4	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH110_0.0-0.1	11 Aug 2025	ES2526307	<5	-	<0.5	-	<0.5	-	<0.5	-	-	<0.5	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH110_0.3-0.4	11 Aug 2025	ES2526307	<5	-	<0.5	-	<0.5	-	<0.5	-	-	<0.5	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Trip_B	Trip Blank	04 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trip_B	Trip Blank	04 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rinsate	Rinsate 1	11 Aug 2025	ES2524646	-	<0.05	-	<0.005	-	<0.005	-	<0.005	-	-	-	<0.005	-	<0.005	-	<0.005	-	<0.005

Table E1 - Summary of Soil Results - Site Suitability										Semivolatile Organic Compounds													
				Trichloroethene		Vinyl chloride		Vic EPA IWRG 621 Chlorinated hydrocarbons (Total)*	Vic EPA IWRG 621 Other cl hydrocarbons (Total)*	1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1,2,4-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2,3-Trichlorobenzene		Acetone	
				mg/kg	mg/L	mg/kg	mg/L	mg/L	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/L	mg/kg
EQL				**0.5**	**0.001**	**0.5**	**0.005**	**0.005**	**0.005**	**0.5**	**0.001**	**0.5**	**0.001**	**0.5**	**0.001**	**0.5**	**0.005**	**0.5**	**0.005**	**0.005**	**0.5**
CRCCARE 2011, Table B4: HSL-DIntrusive Maintenance Worker				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=0m, <1m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=1m, <2m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=2m, <4m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=4m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sample Type	Field ID	Date	Lab Report Number																		
Normal	BH101_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH101_0.9-1.0	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH102_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH102_0.4-0.5	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103-0.5-0.6	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103_0.1-0.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103_0.7-0.8	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103-0.5-0.6	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.3-0.4	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.6-0.7	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.8-0.9	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH105-1.1-1.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH105_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH106_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field_D	DUP2 Replicate of BH106/0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Interlab_D	TRIP 2 Replicate of BH106/0.2-0.3	11 Aug 2025	1255551	<0.5	-	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	-	-	-	-	-	-	<0.5
Normal	BH106_0.5-0.6	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH106_0.5-0.6	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH107_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH107_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH108_0.1-0.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH108_0.5-0.6	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH109_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH109_0-0.1	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH109_0.3-0.4	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH110_0.0-0.1	11 Aug 2025	ES2526307	<0.5	-	<5	-	-	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	-	-
Normal	BH110_0.3-0.4	11 Aug 2025	ES2526307	<0.5	-	<5	-	-	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	-	-
Trip_B	Trip Blank	04 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trip_B	Trip Blank	04 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rinsate	Rinsate 1	11 Aug 2025	ES2524646	-	<0.005	-	<0.05	-	-	-	<0.005	-	<0.005	-	<0.005	-	<0.005	-	<0.005	-	-

Table E1 - Summary of Soil Results - Site Suitability				1,4-Dichloro-2-Butene [cis]		1,4-Dichloro-2-Butene [trans]		2-Butanone (MEK)		1,2-Dibromoethane		4-Chlorotoluene		4-Methyl-2-pentanone (MIBK)		2-Chlorotoluene		2-Hexanone (MBK)		Bromobenzene	
				mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
EQL				**0.5**	**0.005**	**0.5**	**0.005**	**0.5**	**0.005**	**0.5**	**0.001**	**0.5**	**0.001**	**0.5**	**0.005**	**0.5**	**0.005**	**5**	**0.05**	**0.5**	**0.001**
CRCCARE 2011, Table B4: HSL-DIntrusive Maintenance Worker				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=0m, <1m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=1m, <2m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=2m, <4m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=4m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sample Type	Field ID	Date	Lab Report Number																		
Normal	BH101_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH101_0.9-1.0	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH102_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH102_0.4-0.5	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103-0.5-0.6	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103_0.1-0.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103_0.7-0.8	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103-0.5-0.6	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.3-0.4	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.6-0.7	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.8-0.9	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH105-1.1-1.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH105_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH106_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field_D	DUP2 Replicate of BH106/0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Interlab_D	TRIP 2 Replicate of BH106/0.2-0.3	11 Aug 2025	1255551	-	-	-	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	-	-	-	-	<0.5	-
Normal	BH106_0.5-0.6	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH106_0.5-0.6	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH107_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH107_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH108_0.1-0.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH108_0.5-0.6	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH109_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH109_0-0.1	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH109_0.3-0.4	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH110_0.0-0.1	11 Aug 2025	ES2526307	<0.5	-	<0.5	-	<5	-	<0.5	-	<0.5	-	<5	-	<0.5	-	<5	-	<0.5	-
Normal	BH110_0.3-0.4	11 Aug 2025	ES2526307	<0.5	-	<0.5	-	<5	-	<0.5	-	<0.5	-	<5	-	<0.5	-	<5	-	<0.5	-
Trip_B	Trip Blank	04 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trip_B	Trip Blank	04 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rinsate	Rinsate 1	11 Aug 2025	ES2524646	-	<0.005	-	<0.005	-	<0.05	-	<0.005	-	<0.005	-	<0.05	-	<0.005	-	<0.05	-	<0.005

Table E1 - Summary of Soil Results - Site Suitability				Volatile Organic Compounds																			
				Bromomethane		Carbon disulfide		Chlorobenzene		Dichlorodifluoromethane		Formaldehyde		pH (Final)	TCLP Fluid	Total MAH		Allyl chloride		Iodomethane	
				mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	pH Unit	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/kg	mg/L
EQL				**0.5**	**0.005**	**0.5**	**0.001**	**0.5**	**0.001**	**0.5**	**0.005**	**1**	**0.1**	**0.1**	**1**	**0.003**	**0.5**	**0.001**	**0.5**	**0.5**	**0.001**
CRCCARE 2011, Table B4: HSL-DIntrusive Maintenance Worker				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=0m, <1m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=1m, <2m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=2m, <4m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=4m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sample Type	Field ID	Date	Lab Report Number																		
Normal	BH101_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH101_0.9-1.0	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
Normal	BH102_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
Normal	BH102_0.4-0.5	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
Normal	BH103-0.5-0.6	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	**5.2**	**1**	-	-	-	-	-	-
Normal	BH103_0.1-0.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103_0.7-0.8	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
Normal	BH103-0.5-0.6	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
Normal	BH104_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
Normal	BH104_0.3-0.4	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
Normal	BH104_0.6-0.7	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.8-0.9	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
Normal	BH105-1.1-1.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
Normal	BH105_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
Normal	BH106_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
Field_D	DUP2 Replicate of BH106/0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
Interlab_D	TRIP 2 Replicate of BH106/0.2-0.3	11 Aug 2025	1255551	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<1	-	-	-	-	<0.5	-	<0.5	<0.5	-
Normal	BH106_0.5-0.6	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
Normal	BH106_0.5-0.6	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	**5.1**	**1**	-	-	-	-	-	-
Normal	BH107_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
Normal	BH107_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
Normal	BH108_0.1-0.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
Normal	BH108_0.5-0.6	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
Normal	BH109_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
Normal	BH109_0-0.1	11 Aug 2025	ES2526307	-	-	-	-	-	-	-	-	-	-	**6.0**	**1**	-	-	-	-	-	-
Normal	BH109_0.3-0.4	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
Normal	BH110_0.0-0.1	11 Aug 2025	ES2526307	<5	-	<0.5	-	<0.5	-	<5	-	<1	-	-	-	-	-	-	-	<0.5	-
Normal	BH110_0.3-0.4	11 Aug 2025	ES2526307	<5	-	<0.5	-	<0.5	-	<5	-	<1	-	-	-	-	-	-	-	<0.5	-
Trip_B	Trip Blank	04 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trip_B	Trip Blank	04 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rinsate	Rinsate 1	11 Aug 2025	ES2524646	-	<0.05	-	<0.005	-	<0.005	-	<0.05	-	<0.1	-	-	-	-	-	-	-	<0.005

Table E1 - Summary of Soil Results - Site Suitability										
				Pentachloroethane		Trichlorofluoromethane		Vinyl acetate	Vinyl acetate	
				mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	
EQL				**0.5**	**0.005**	**0.5**	**0.005**	**5**	**0.05**	
CRCCARE 2011, Table B4: HSL-DIntrusive Maintenance Worker				-	-	-	-	-	-	
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil				-	-	-	-	-	-	
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay				-	-	-	-	-	-	
>=0m, <1m				-	-	-	-	-	-	
>=1m, <2m				-	-	-	-	-	-	
>=2m, <4m				-	-	-	-	-	-	
>=4m				-	-	-	-	-	-	
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil				-	-	-	-	-	-	
Sample Type	Field ID	Date	Lab Report Number							
Normal	BH101_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	
Normal	BH101_0.9-1.0	11 Aug 2025	ES2524646	-	-	-	-	-	-	
Normal	BH102_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	
Normal	BH102_0.4-0.5	11 Aug 2025	ES2524646	-	-	-	-	-	-	
Normal	BH103-0.5-0.6	11 Aug 2025	ES2526307	-	-	-	-	-	-	
Normal	BH103_0.1-0.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	
Normal	BH103_0.7-0.8	11 Aug 2025	ES2524646	-	-	-	-	-	-	
Normal	BH103-0.5-0.6	11 Aug 2025	ES2524646	-	-	-	-	-	-	
Normal	BH104_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	
Normal	BH104_0.3-0.4	11 Aug 2025	ES2524646	-	-	-	-	-	-	
Normal	BH104_0.6-0.7	11 Aug 2025	ES2524646	-	-	-	-	-	-	
Normal	BH104_0.8-0.9	11 Aug 2025	ES2524646	-	-	-	-	-	-	
Normal	BH105-1.1-1.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	
Normal	BH105_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	
Normal	BH106_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	
Field_D	DUP2 Replicate of BH106/0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	
Interlab_D	TRIP 2 Replicate of BH106/0.2-0.3	11 Aug 2025	1255551	-	-	<0.5	-	-	-	
Normal	BH106_0.5-0.6	11 Aug 2025	ES2524646	-	-	-	-	-	-	
Normal	BH106_0.5-0.6	11 Aug 2025	ES2526307	-	-	-	-	-	-	
Normal	BH107_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	
Normal	BH107_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	
Normal	BH108_0.1-0.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	
Normal	BH108_0.5-0.6	11 Aug 2025	ES2524646	-	-	-	-	-	-	
Normal	BH109_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	
Normal	BH109_0-0.1	11 Aug 2025	ES2526307	-	-	-	-	-	-	
Normal	BH109_0.3-0.4	11 Aug 2025	ES2524646	-	-	-	-	-	-	
Normal	BH110_0.0-0.1	11 Aug 2025	ES2526307	<0.5	-	<5	-	<5	-	
Normal	BH110_0.3-0.4	11 Aug 2025	ES2526307	<0.5	-	<5	-	<5	-	
Trip_B	Trip Blank	04 Aug 2025	ES2524646	-	-	-	-	-	-	
Trip_B	Trip Blank	04 Aug 2025	ES2524646	-	-	-	-	-	-	
Rinsate	Rinsate 1	11 Aug 2025	ES2524646	-	<0.005	-	<0.05	-	<0.05	

Table E3 - Summary of Soil Results - Waste Classification				Asbestos	Metals								
					Arsenic	Cadmium	Chromium	Copper	Mercury	Nickel	Nickel (filtered)	Silver
				g/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg
EQL				**0.1**	**2**	**0.4**	**2**	**5**	**0.1**	**2**	**0.001**	**2**
NSW 2014 General Solid Waste CT1 (No Leaching)				-	100	20	-	-	4	40	-	100
NSW 2014 General Solid Waste SCC1 (with leached)				-	500	100	-	-	50	1,050	-	180
NSW 2014 General Solid Waste TCLP1 (leached)				-	-	-	-	-	-	-	2	-
NSW 2014 Restricted Solid Waste CT2 (No Leaching)				-	400	80	-	-	16	160	-	400
NSW 2014 Restricted Solid Waste SCC2 (with leached)				-	2,000	400	-	-	200	4,200	-	720
NSW 2014 Restricted Solid Waste TCLP2 (leached)				-	-	-	-	-	-	-	8	-
Natural - Predicted Ambient Background Concentrations					18		165	40		56		
Sample Type	Field ID	Date	Lab Report Number									
Fill												
Normal	BH101_0-0.1	11 Aug 2025	ES2524646	**No asbestos detected**	-	-	-	-	-	-	-	-
Normal	BH102_0-0.1	11 Aug 2025	ES2524646	**No asbestos detected**	<5	<1	**7**	**93**	<0.1	**52**	-	**5**
Normal	BH102_0.4-0.5	11 Aug 2025	ES2524646	**No asbestos detected**	**9**	<1	**18**	**41**	**0.1**	**12**	-	<2
Normal	BH103_0.1-0.2	11 Aug 2025	ES2524646	**No asbestos detected**	-	-	-	-	-	-	-	-
Normal	BH103-0.5-0.6	11 Aug 2025	ES2524646	**No asbestos detected**	**10**	<1	**22**	**1,010**	**2.1**	**36**	-	<2
Normal	BH104_0.2-0.3	11 Aug 2025	ES2524646	**No asbestos detected**	<5	<1	**16**	**32**	**0.3**	**17**	-	<2
Normal	BH104_0.3-0.4	11 Aug 2025	ES2524646	**No asbestos detected**	**7**	<1	**11**	**6**	<0.1	<2	-	<2
Normal	BH104_0.6-0.7	11 Aug 2025	ES2524646	**No asbestos detected**	-	-	-	-	-	-	-	-
Normal	BH105_0.2-0.3	11 Aug 2025	ES2524646	**No asbestos detected**	**16**	<1	**9**	**87**	<0.1	**21**	-	<2
Normal	BH106_0.2-0.3	11 Aug 2025	ES2524646	**No asbestos detected**	**5**	<1	**11**	**56**	**0.1**	**15**	-	<2
Field_D	DUP2 Replicate of BH106/0.2-0.3	11 Aug 2025	ES2524646	-	**7**	<1	**19**	**46**	**0.1**	**15**	-	<2
Interlab_D	TRIP 2 Replicate of BH106/0.2-0.3	11 Aug 2025	1255551	-	**5.4**	<0.4	**17**	**140**	<0.1	**15**	-	<2
Normal	BH106_0.5-0.6	11 Aug 2025	ES2524646	**No asbestos detected**	**6**	<1	**13**	**12**	**0.3**	<2	-	<2
Normal	BH107_0-0.1	11 Aug 2025	ES2524646	**No asbestos detected**	<5	<1	**38**	**37**	**0.1**	**36**	-	<2
Normal	BH107_0.2-0.3	11 Aug 2025	ES2524646	**No asbestos detected**	<5	<1	**7**	**10**	**0.5**	**4**	-	<2
Normal	BH108_0.1-0.2	11 Aug 2025	ES2524646	**No asbestos detected**	<5	<1	**12**	**15**	**0.1**	**5**	-	<2
Normal	BH108_0.5-0.6	11 Aug 2025	ES2524646	**No asbestos detected**	**6**	<1	**13**	**6**	**0.1**	**3**	-	<2
Normal	BH109_0-0.1	11 Aug 2025	ES2524646	**No asbestos detected**	<5	<1	**115**	**30**	**0.1**	**101**	<0.1	<2
Normal	BH109_0.3-0.4	11 Aug 2025	ES2524646	**No asbestos detected**	<5	<1	**18**	**16**	**0.1**	**14**	-	<2
Normal	BH110_0.0-0.1	11 Aug 2025	ES2526307	**No asbestos detected**	<5	<1	**40**	**28**	**0.1**	**41**	-	**3**
Normal	BH110_0.3-0.4	11 Aug 2025	ES2526307	**No asbestos detected**	<5	<1	**11**	**6**	<0.1	**4**	-	<2
Natural												
Normal	BH101_0.9-1.0	11 Aug 2025	ES2524646	-	<5	<1	**5**	<5	<0.1	<2	-	<2
Normal	BH103_0.7-0.8	11 Aug 2025	ES2524646	**No asbestos detected**	<5	<1	**10**	**15**	<0.1	**5**	-	<2
Normal	BH104_0.8-0.9	11 Aug 2025	ES2524646	-	<5	<1	**5**	<5	<0.1	<2	-	<2
Normal	BH105-1.1-1.2	11 Aug 2025	ES2524646	-	<5	<1	**11**	<5	<0.1	<2	-	<2

Statistics												
Minimum Concentration												
Minimum Detect												
Maximum Concentration												
Maximum Detect												
Average Concentration *												
Median Concentration *												
Standard Deviation *												
95% UCL (Student's-t) *												
* A Non Detect Multiplier of 0.5 has been applied.												

Table E3 - Summary of Soil Results - Waste Classification							BTEX							
				Lead		Zinc	Benzene	Ethylbenzene	Toluene	Xylenes Total	Xylene (o)	Xylenes (m & p)	Total BTEX	Naphthalene (VOC)
				mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				**5**	**0.001**	**5**	**0.1**	**0.1**	**0.1**	**0.3**	**0.1**	**0.2**	**0.2**	**0.5**
NSW 2014 General Solid Waste CT1 (No Leaching)				100	-	-	10	600	288	1,000	-	-	-	-
NSW 2014 General Solid Waste SCC1 (with leached)				1,500	-	-	18	1,080	518	1,800	-	-	-	-
NSW 2014 General Solid Waste TCLP1 (leached)				-	5	-	-	-	-	-	-	-	-	-
NSW 2014 Restricted Solid Waste CT2 (No Leaching)				400	-	-	40	2,400	1,152	4,000	-	-	-	-
NSW 2014 Restricted Solid Waste SCC2 (with leached)				6,000	-	-	72	4,320	2,073	7,200	-	-	-	-
NSW 2014 Restricted Solid Waste TCLP2 (leached)				-	20	-	-	-	-	-	-	-	-	-
Natural - Predicted Ambient Background Concentrations				29		62	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	
Sample Type	Field ID	Date	Lab Report Number											
Fill														
Normal	BH101_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-
Normal	BH102_0-0.1	11 Aug 2025	ES2524646	<5	-	**29**	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1
Normal	BH102_0.4-0.5	11 Aug 2025	ES2524646	**111**	-	**112**	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1
Normal	BH103_0.1-0.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103-0.5-0.6	11 Aug 2025	ES2524646	**453**	0.5	**568**	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1
Normal	BH104_0.2-0.3	11 Aug 2025	ES2524646	**157**	-	**239**	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1
Normal	BH104_0.3-0.4	11 Aug 2025	ES2524646	**46**	-	**43**	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1
Normal	BH104_0.6-0.7	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-
Normal	BH105_0.2-0.3	11 Aug 2025	ES2524646	**47**	-	**194**	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1
Normal	BH106_0.2-0.3	11 Aug 2025	ES2524646	**86**	-	**343**	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1
Field_D	DUP2 Replicate of BH106/0.2-0.3	11 Aug 2025	ES2524646	**157**	-	**2,770**	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1
Interlab_D	TRIP 2 Replicate of BH106/0.2-0.3	11 Aug 2025	1255551	**110**	-	**2,700**	<0.1	<0.1	<0.1	<0.3	<0.1	<0.2	-	<0.5
Normal	BH106_0.5-0.6	11 Aug 2025	ES2524646	**200**	0.7	**100**	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1
Normal	BH107_0-0.1	11 Aug 2025	ES2524646	**134**	-	**102**	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1
Normal	BH107_0.2-0.3	11 Aug 2025	ES2524646	**130**	-	**91**	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1
Normal	BH108_0.1-0.2	11 Aug 2025	ES2524646	**112**	-	**75**	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1
Normal	BH108_0.5-0.6	11 Aug 2025	ES2524646	**38**	-	**32**	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1
Normal	BH109_0-0.1	11 Aug 2025	ES2524646	**49**	-	**64**	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1
Normal	BH109_0.3-0.4	11 Aug 2025	ES2524646	**61**	-	**89**	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1
Normal	BH110_0.0-0.1	11 Aug 2025	ES2526307	**157**	-	**92**	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1
Normal	BH110_0.3-0.4	11 Aug 2025	ES2526307	**40**	-	**32**	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1
Natural														
Normal	BH101_0.9-1.0	11 Aug 2025	ES2524646	**14**	-	**6**	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1
Normal	BH103_0.7-0.8	11 Aug 2025	ES2524646	**15**	-	**28**	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1
Normal	BH104_0.8-0.9	11 Aug 2025	ES2524646	**16**	-	**13**	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1
Normal	BH105-1.1-1.2	11 Aug 2025	ES2524646	**8**	-	<5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<1

Statistics														
Minimum Concentration														
Minimum Detect														
Maximum Concentration														
Maximum Detect														
Average Concentration *														
Median Concentration *														
Standard Deviation *														
95% UCL (Student's-t) *														
* A Non Detect Multiplier of 0.5 has been applied.														

Table E3 - Summary of Soil Results - Waste Classification				Monocyclic	Polycyclic	Total Petroleum									
				Styrene	Benzo(a) pyrene	C6 - C9	+C10 - C36 (Sum of total)	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1-dichloroethene	1,2-dichloroethane	
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L
EQL				**0.5**	**0.5**	**10**	**50**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.001**
NSW 2014 General Solid Waste CT1 (No Leaching)				60	0.8	650	10,000	200	600	26	14	10	-
NSW 2014 General Solid Waste SCC1 (with leached)				108	10	6,500	10,000	360	1,080	46.8	0.7	0.5	-
NSW 2014 General Solid Waste TCLP1 (leached)				-	-	-	-	-	-	-	-	-	0.5
NSW 2014 Restricted Solid Waste CT2 (No Leaching)				240	3.2	2,600	40,000	800	2,400	104	56	40	-
NSW 2014 Restricted Solid Waste SCC2 (with leached)				432	23	2,600	40,000	1,440	4,320	187.2	100	72	-
NSW 2014 Restricted Solid Waste TCLP2 (leached)				-	-	-	-	-	-	-	-	-	2
Natural - Predicted Ambient Background Concentrations					<EQL	<EQL	<EQL						
Sample Type	Field ID	Date	Lab Report Number										
Fill													
Normal	BH101_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-
Normal	BH102_0-0.1	11 Aug 2025	ES2524646	-	<0.5	<10	<50	-	-	-	-	-	-
Normal	BH102_0.4-0.5	11 Aug 2025	ES2524646	-	**0.5**	<10	<50	-	-	-	-	-	-
Normal	BH103_0.1-0.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-
Normal	BH103-0.5-0.6	11 Aug 2025	ES2524646	-	<0.5	<10	**260**	-	-	-	-	-	-
Normal	BH104_0.2-0.3	11 Aug 2025	ES2524646	-	**0.9**	<10	<50	-	-	-	-	-	-
Normal	BH104_0.3-0.4	11 Aug 2025	ES2524646	-	<0.5	<10	<50	-	-	-	-	-	-
Normal	BH104_0.6-0.7	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-
Normal	BH105_0.2-0.3	11 Aug 2025	ES2524646	-	<0.5	<10	<50	-	-	-	-	-	-
Normal	BH106_0.2-0.3	11 Aug 2025	ES2524646	-	**0.5**	<10	<50	-	-	-	-	-	-
Field_D	DUP2 Replicate of BH106/0.2-0.3	11 Aug 2025	ES2524646	-	**0.8**	<10	<50	-	-	-	-	-	-
Interlab_D	TRIP 2 Replicate of BH106/0.2-0.3	11 Aug 2025	1255551	<0.5	<0.5	<20	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
Normal	BH106_0.5-0.6	11 Aug 2025	ES2524646	-	**1.0**	<10	<50	-	-	-	-	-	-
Normal	BH107_0-0.1	11 Aug 2025	ES2524646	-	**0.8**	<10	**100**	-	-	-	-	-	-
Normal	BH107_0.2-0.3	11 Aug 2025	ES2524646	-	**0.5**	<10	<50	-	-	-	-	-	-
Normal	BH108_0.1-0.2	11 Aug 2025	ES2524646	-	<0.5	<10	<50	-	-	-	-	-	-
Normal	BH108_0.5-0.6	11 Aug 2025	ES2524646	-	<0.5	<10	<50	-	-	-	-	-	-
Normal	BH109_0-0.1	11 Aug 2025	ES2524646	-	<0.5	<10	<50	-	-	-	-	-	-
Normal	BH109_0.3-0.4	11 Aug 2025	ES2524646	-	<0.5	<10	<50	-	-	-	-	-	-
Normal	BH110_0.0-0.1	11 Aug 2025	ES2526307	<0.5	**0.7**	<10	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
Normal	BH110_0.3-0.4	11 Aug 2025	ES2526307	<0.5	<0.5	<10	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
Natural													
Normal	BH101_0.9-1.0	11 Aug 2025	ES2524646	-	<0.5	<10	<50	-	-	-	-	-	-
Normal	BH103_0.7-0.8	11 Aug 2025	ES2524646	-	<0.5	<10	<50	-	-	-	-	-	-
Normal	BH104_0.8-0.9	11 Aug 2025	ES2524646	-	<0.5	<10	<50	-	-	-	-	-	-
Normal	BH105-1.1-1.2	11 Aug 2025	ES2524646	-	<0.5	<10	<50	-	-	-	-	-	-

Statistics													
Minimum Concentration					0.5								
Minimum Detect					0.5								
Maximum Concentration					1								
Maximum Detect					1								
Average Concentration *					0.42								
Median Concentration *					0.25								
Standard Deviation *					0.25								
95% UCL (Student's-t) *					0.511								
* A Non Detect Multiplier of 0.5 has been applied.													

Table E3 - Summary of Soil Results - Waste Classification				Chlorinated Hydrocarbons											
				1,1,2-trichloroethane		Carbon tetrachloride		Chloroform		Dichloromethane		Tetrachloroethene		Trichloroethene	
				mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/L	mg/kg	mg/kg	mg/L	mg/kg	mg/L
EQL				**0.5**	**0.001**	**0.5**	**0.001**	**0.5**	**0.005**	**0.005**	**0.5**	**0.5**	**0.001**	**0.5**	**0.001**
NSW 2014 General Solid Waste CT1 (No Leaching)				24	-	10	-	120	-	-	172	14	-	10	-
NSW 2014 General Solid Waste SCC1 (with leached)				43.2	-	18	-	126	-	-	8.6	25.2	-	18	-
NSW 2014 General Solid Waste TCLP1 (leached)				-	1.2	-	5	-	6	8.6	-	-	0.7	-	0.5
NSW 2014 Restricted Solid Waste CT2 (No Leaching)				96	-	40	-	480	-	-	688	56	-	40	-
NSW 2014 Restricted Solid Waste SCC2 (with leached)				172.8	-	72	-	864	-	-	1,240	100.8	-	72	-
NSW 2014 Restricted Solid Waste TCLP2 (leached)				-	4.8	-	2	-	24	34.4	-	-	2.8	-	2
Natural - Predicted Ambient Background Concentrations															
Sample Type	Field ID	Date	Lab Report Number												
Fill															
Normal	BH101_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH102_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH102_0.4-0.5	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103_0.1-0.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103-0.5-0.6	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.3-0.4	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.6-0.7	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH105_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH106_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
Field_D	DUP2 Replicate of BH106/0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
Interlab_D	TRIP 2 Replicate of BH106/0.2-0.3	11 Aug 2025	1255551	<0.5	-	<0.5	-	<0.5	-	-	<0.5	<0.5	-	<0.5	-
Normal	BH106_0.5-0.6	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH107_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH107_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH108_0.1-0.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH108_0.5-0.6	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH109_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH109_0.3-0.4	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH110_0.0-0.1	11 Aug 2025	ES2526307	<0.5	-	<0.5	-	<0.5	-	-	-	<0.5	-	<0.5	-
Normal	BH110_0.3-0.4	11 Aug 2025	ES2526307	<0.5	-	<0.5	-	<0.5	-	-	-	<0.5	-	<0.5	-
Natural															
Normal	BH101_0.9-1.0	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH103_0.7-0.8	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.8-0.9	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
Normal	BH105-1.1-1.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-

Statistics															
Minimum Concentration															
Minimum Detect															
Maximum Concentration															
Maximum Detect															
Average Concentration *															
Median Concentration *															
Standard Deviation *															
95% UCL (Student's-t) *															
* A Non Detect Multiplier of 0.5 has been applied.															

Table E3 - Summary of Soil Results - Waste Classification						Semivolatile Organic Compounds				Volatile Organic Compounds			
				Vinyl chloride		1,2-Dichlorobenzene		1,4-Dichlorobenzene		2-Butanone (MEK)		Chlorobenzene	
				mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
EQL				**0.5**	**0.005**	**0.5**	**0.001**	**0.5**	**0.001**	**0.5**	**0.005**	**0.5**	**0.001**
NSW 2014 General Solid Waste CT1 (No Leaching)				4	-	86	-	150	-	4,000	-	2,000	-
NSW 2014 General Solid Waste SCC1 (with leached)				7.2	-	4.3	-	7.5	-	7,200	-	3,600	-
NSW 2014 General Solid Waste TCLP1 (leached)				-	0.2	-	4.3	-	7.5	-	200	-	100
NSW 2014 Restricted Solid Waste CT2 (No Leaching)				16	-	344	-	600	-	16,000	-	8,000	-
NSW 2014 Restricted Solid Waste SCC2 (with leached)				28.8	-	620	-	1,080	-	28,800	-	14,400	-
NSW 2014 Restricted Solid Waste TCLP2 (leached)				-	0.8	-	17.2	-	30	-	800	-	400
Natural - Predicted Ambient Background Concentrations													
Sample Type	Field ID	Date	Lab Report Number										
Fill													
Normal	BH101_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-
Normal	BH102_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-
Normal	BH102_0.4-0.5	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-
Normal	BH103_0.1-0.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-
Normal	BH103-0.5-0.6	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.3-0.4	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.6-0.7	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-
Normal	BH105_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-
Normal	BH106_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-
Field_D	DUP2 Replicate of BH106/0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-
Interlab_D	TRIP 2 Replicate of BH106/0.2-0.3	11 Aug 2025	1255551	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Normal	BH106_0.5-0.6	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-
Normal	BH107_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-
Normal	BH107_0.2-0.3	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-
Normal	BH108_0.1-0.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-
Normal	BH108_0.5-0.6	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-
Normal	BH109_0-0.1	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-
Normal	BH109_0.3-0.4	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-
Normal	BH110_0.0-0.1	11 Aug 2025	ES2526307	<5	-	<0.5	-	<0.5	-	<5	-	<0.5	-
Normal	BH110_0.3-0.4	11 Aug 2025	ES2526307	<5	-	<0.5	-	<0.5	-	<5	-	<0.5	-
Natural													
Normal	BH101_0.9-1.0	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-
Normal	BH103_0.7-0.8	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-
Normal	BH104_0.8-0.9	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-
Normal	BH105-1.1-1.2	11 Aug 2025	ES2524646	-	-	-	-	-	-	-	-	-	-

Statistics													
Minimum Concentration													
Minimum Detect													
Maximum Concentration													
Maximum Detect													
Average Concentration *													
Median Concentration *													
Standard Deviation *													
95% UCL (Student's-t) *													
* A Non Detect Multiplier of 0.5 has been applied.													

Table E3: Summary of Groundwater Results				Metals							
				Arsenic	Cadmium	Chromium	Copper	Mercury	Nickel	Silver	Lead
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL				**0.001**	**0.0001**	**0.001**	**0.001**	**0.0001**	**0.001**	**0.001**	**0.001**
ANZG Marine Water Toxicant DGVs LOSP 95% (June 2025)				-	0.0055	-	0.0013	0.0004	0.07	0.0014	0.0044
NEPM 2013 Table 1C GILs, Marine Waters				-	0.0007	-	0.0013	0.0001	0.007	0.0014	0.0044
Sample Type	Field ID	Date	Lab Report Number								
Normal	BH01	11 Aug 2025	ES2524646	**0.004**	<0.0001	**0.029**	**0.033**	<0.0001	**0.041**	<0.001	**0.010**
Field_D	DUP1 Repliate of BH01	11 Aug 2025	ES2524646	**0.003**	<0.0001	**0.022**	**0.027**	<0.0001	**0.025**	<0.001	**0.008**
Interlab_D	TRIP 1 Replicate of BH01	11 Aug 2025	1255551	<0.001	<0.0002	**0.008**	**0.002**	<0.0001	**0.025**	<0.005	**0.002**
Normal	BH02	11 Aug 2025	ES2524646	<0.001	<0.0001	<0.001	**0.025**	<0.0001	**0.014**	<0.001	**0.002**
Normal	BH03	11 Aug 2025	ES2524646	**0.003**	<0.0001	**0.009**	**0.058**	<0.0001	**0.017**	<0.001	**0.018**

Table E3: Summary of Groundwater Results					BTEX								
				Zinc	Benzene	Ethylbenzene	Toluene	Xylenes Total	Xylene (o)	Xylenes (m & p)	Total BTEX	Naphthalene (VOC)
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL				**0.005**	**0.001**	**0.001**	**0.001**	**0.002**	**0.001**	**0.002**	**0.001**	**0.005**
ANZG Marine Water Toxicant DGVs LOSP 95% (June 2025)				0.008	0.7	0.08	0.18	-	-	-	-	0.07
NEPM 2013 Table 1C GILs, Marine Waters				0.015	0.5	-	-	-	-	-	-	-
Sample Type	Field ID	Date	Lab Report Number									
Normal	BH01	11 Aug 2025	ES2524646	**0.139**	<0.001	<0.002	**0.005**	<0.002	<0.002	<0.002	**0.005**	<0.005
Field_D	DUP1 Repliate of BH01	11 Aug 2025	ES2524646	**0.105**	<0.001	<0.002	**0.004**	<0.002	<0.002	<0.002	**0.004**	<0.005
Interlab_D	TRIP 1 Replicate of BH01	11 Aug 2025	1255551	**0.096**	<0.001	<0.001	**0.007**	<0.003	<0.001	<0.002	-	<0.01
Normal	BH02	11 Aug 2025	ES2524646	**0.069**	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.005
Normal	BH03	11 Aug 2025	ES2524646	**0.249**	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.005

Table E3: Summary of Groundwater Results				Monocyclic Aromatic Hydrocarbons							
				1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	n-Butylbenzene	iso-Propylbenzene (cumene)	n-Propylbenzene	sec-Butylbenzene	tert-Butylbenzene	Styrene
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL				**0.001**	**0.001**	**0.005**	**0.001**	**0.005**	**0.005**	**0.005**	**0.001**
ANZG Marine Water Toxicant DGVs LOSP 95% (June 2025)				-	-	-	0.03	-	-	-	-
NEPM 2013 Table 1C GILs, Marine Waters				-	-	-	-	-	-	-	-
Sample Type	Field ID	Date	Lab Report Number								
Normal	BH01	11 Aug 2025	ES2524646	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Field_D	DUP1 Repliate of BH01	11 Aug 2025	ES2524646	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Interlab_D	TRIP 1 Replicate of BH01	11 Aug 2025	1255551	<0.001	<0.001	-	<0.001	-	-	-	<0.001
Normal	BH02	11 Aug 2025	ES2524646	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Normal	BH03	11 Aug 2025	ES2524646	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Table E3: Summary of Groundwater Results											
				p-Isopropyltoluene	Benzo(a)pyrene TEQ calc (Zero)	Anthracene	Pyrene	Benzo(g,h,i)perylene	Indeno(1,2,3-c,d)pyrene	Benzo(b+j)fluoranthene	Fluoranthene
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL				**0.005**	**0.0005**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**
ANZG Marine Water Toxicant DGVs LOSP 95% (June 2025)				-	-	0.0004	-	-	-	-	0.0014
NEPM 2013 Table 1C GILs, Marine Waters				-	-	-	-	-	-	-	-
Sample Type	Field ID	Date	Lab Report Number								
Normal	BH01	11 Aug 2025	ES2524646	<0.005	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Field_D	DUP1 Repliate of BH01	11 Aug 2025	ES2524646	<0.005	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Interlab_D	TRIP 1 Replicate of BH01	11 Aug 2025	1255551	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Normal	BH02	11 Aug 2025	ES2524646	<0.005	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Normal	BH03	11 Aug 2025	ES2524646	<0.005	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010

Table E3: Summary of Groundwater Results				Polycyclic Aromatic Hydrocarbons							
				Benzo(k)fluoranthene	Acenaphthylene	Chrysene	Benzo(a) pyrene	Dibenz(a,h)anthracene	Benz(a)anthracene	Acenaphthene	Phenanthrene
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL				**0.001**	**0.001**	**0.001**	**0.0005**	**0.001**	**0.001**	**0.001**	**0.001**
ANZG Marine Water Toxicant DGVs LOSP 95% (June 2025)				-	-	-	0.0002	-	-	-	0.002
NEPM 2013 Table 1C GILs, Marine Waters				-	-	-	-	-	-	-	-
Sample Type	Field ID	Date	Lab Report Number								
Normal	BH01	11 Aug 2025	ES2524646	<0.0010	<0.0010	<0.0010	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010
Field_D	DUP1 Repliate of BH01	11 Aug 2025	ES2524646	<0.0010	<0.0010	<0.0010	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010
Interlab_D	TRIP 1 Replicate of BH01	11 Aug 2025	1255551	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Normal	BH02	11 Aug 2025	ES2524646	<0.0010	<0.0010	<0.0010	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010
Normal	BH03	11 Aug 2025	ES2524646	<0.0010	<0.0010	<0.0010	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010

Table E3: Summary of Groundwater Results												
							Total Recoverable Hydrocarbons					
				Fluorene	PAHs (Sum of total)	Naphthalene	F1 (C6-C10)	F1 (C6-C10) less BTEX	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	C34-C40
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL				**0.001**	**0.0005**	**0.001**	**0.02**	**0.02**	**0.05**	**0.1**	**0.1**
ANZG Marine Water Toxicant DGVs LOSP 95% (June 2025)				-	-	0.07	-	-	-	-	-
NEPM 2013 Table 1C GILs, Marine Waters				-	-	0.05	-	-	-	-	-
Sample Type	Field ID	Date	Lab Report Number								
Normal	BH01	11 Aug 2025	ES2524646	<0.0010	<0.0005	<0.0010	<0.02	<0.02	<0.1	<0.1	<0.1
Field_D	DUP1 Repliate of BH01	11 Aug 2025	ES2524646	<0.0010	<0.0005	<0.0010	<0.02	<0.02	<0.1	<0.1	<0.1
Interlab_D	TRIP 1 Replicate of BH01	11 Aug 2025	1255551	<0.001	<0.001	<0.001	<0.02	<0.02	<0.05	<0.1	<0.1
Normal	BH02	11 Aug 2025	ES2524646	<0.0010	<0.0005	<0.0010	<0.02	<0.02	<0.1	<0.1	<0.1
Normal	BH03	11 Aug 2025	ES2524646	<0.0010	<0.0005	<0.0010	<0.02	<0.02	<0.1	<0.1	<0.1

Table E3: Summary of Groundwater Results						Total Petroleum Hydrocarbons					
				C10 - C40 (Sum of total)	F2 C10-C16 (minus Naphthalene)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	1,1,1,2-tetrachloroethane
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL				**0.1**	**0.05**	**0.02**	**0.05**	**0.1**	**0.05**	**0.05**	**0.001**
ANZG Marine Water Toxicant DGVs LOSP 95% (June 2025)				-	-	-	-	-	-	-	-
NEPM 2013 Table 1C GILs, Marine Waters				-	-	-	-	-	-	-	-
Sample Type	Field ID	Date	Lab Report Number								
Normal	BH01	11 Aug 2025	ES2524646	<0.1	<0.1	<0.02	<0.05	<0.1	<0.05	<0.05	<0.005
Field_D	DUP1 Repliate of BH01	11 Aug 2025	ES2524646	<0.1	<0.1	<0.02	<0.05	<0.1	<0.05	<0.05	<0.005
Interlab_D	TRIP 1 Replicate of BH01	11 Aug 2025	1255551	<0.1	<0.05	<0.02	<0.05	<0.1	<0.1	<0.1	<0.001
Normal	BH02	11 Aug 2025	ES2524646	<0.1	<0.1	<0.02	<0.05	<0.1	<0.05	<0.05	<0.005
Normal	BH03	11 Aug 2025	ES2524646	<0.1	<0.1	<0.02	<0.05	<0.1	<0.05	<0.05	<0.005

Table E3: Summary of Groundwater Results				1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1-dichloroethane	1,1-dichloroethene	1,1-dichloropropene	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL				**0.001**	**0.001**	**0.001**	**0.001**	**0.005**	**0.001**	**0.005**	**0.001**
ANZG Marine Water Toxicant DGVs LOSP 95% (June 2025)				0.27	0.4	-	0.7	-	-	-	1.9
NEPM 2013 Table 1C GILs, Marine Waters				-	-	-	-	-	-	-	-
Sample Type	Field ID	Date	Lab Report Number								
Normal	BH01	11 Aug 2025	ES2524646	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Field_D	DUP1 Repliate of BH01	11 Aug 2025	ES2524646	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Interlab_D	TRIP 1 Replicate of BH01	11 Aug 2025	1255551	<0.001	<0.001	<0.001	<0.001	-	<0.001	-	<0.001
Normal	BH02	11 Aug 2025	ES2524646	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Normal	BH03	11 Aug 2025	ES2524646	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Table E3: Summary of Groundwater Results				Chlorinated Hydrocarbons							
				1,2-dichloropropane	1,1,2-trichloroethane	2,2-dichloropropane	Bromochloromethane	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorodibromomethane
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL				**0.001**	**0.001**	**0.005**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**
ANZG Marine Water Toxicant DGVs LOSP 95% (June 2025)				0.9	1.9	-	-	-	-	0.24	-
NEPM 2013 Table 1C GILs, Marine Waters				-	1.9	-	-	-	-	-	-
Sample Type	Field ID	Date	Lab Report Number								
Normal	BH01	11 Aug 2025	ES2524646	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005
Field_D	DUP1 Repliate of BH01	11 Aug 2025	ES2524646	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005
Interlab_D	TRIP 1 Replicate of BH01	11 Aug 2025	1255551	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001
Normal	BH02	11 Aug 2025	ES2524646	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005
Normal	BH03	11 Aug 2025	ES2524646	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005

Table E3: Summary of Groundwater Results				Chloroethane	1,3-dichloropropane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dibromomethane	Dichloromethane
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL				**0.005**	**0.001**	**0.005**	**0.005**	**0.001**	**0.001**	**0.001**	**0.005**
ANZG Marine Water Toxicant DGVs LOSP 95% (June 2025)				-	1.1	0.77	-	-	-	-	4
NEPM 2013 Table 1C GILs, Marine Waters				-	-	-	-	-	-	-	-
Sample Type	Field ID	Date	Lab Report Number								
Normal	BH01	11 Aug 2025	ES2524646	<0.05	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	-
Field_D	DUP1 Repliate of BH01	11 Aug 2025	ES2524646	<0.05	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	-
Interlab_D	TRIP 1 Replicate of BH01	11 Aug 2025	1255551	<0.005	<0.001	**0.006**	<0.005	<0.001	<0.001	<0.001	<0.005
Normal	BH02	11 Aug 2025	ES2524646	<0.05	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	-
Normal	BH03	11 Aug 2025	ES2524646	<0.05	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	-

Table E3: Summary of Groundwater Results				Hexachlorobutadiene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl chloride
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL				**0.005**	**0.001**	**0.001**	**0.001**	**0.001**	**0.005**
ANZG Marine Water Toxicant DGVs LOSP 95% (June 2025)				-	0.07	-	-	0.33	0.1
NEPM 2013 Table 1C GILs, Marine Waters				-	-	-	-	-	-
Sample Type	Field ID	Date	Lab Report Number						
Normal	BH01	11 Aug 2025	ES2524646	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05
Field_D	DUP1 Repliate of BH01	11 Aug 2025	ES2524646	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05
Interlab_D	TRIP 1 Replicate of BH01	11 Aug 2025	1255551	-	<0.001	<0.001	<0.001	<0.001	<0.005
Normal	BH02	11 Aug 2025	ES2524646	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05
Normal	BH03	11 Aug 2025	ES2524646	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05

Table E3: Summary of Groundwater Results				Semivolatile Organic Compounds							
				1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,2,4-Trichlorobenzene	1,2,3-Trichlorobenzene	Acetone	1,4-Dichloro-2-Butene [cis]	1,4-Dichloro-2-Butene [trans]
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL				**0.001**	**0.001**	**0.001**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**
ANZG Marine Water Toxicant DGVs LOSP 95% (June 2025)				-	-	-	0.08	-	-	-	-
NEPM 2013 Table 1C GILs, Marine Waters				-	-	-	0.02	-	-	-	-
Sample Type	Field ID	Date	Lab Report Number								
Normal	BH01	11 Aug 2025	ES2524646	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005
Field_D	DUP1 Repliate of BH01	11 Aug 2025	ES2524646	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005
Interlab_D	TRIP 1 Replicate of BH01	11 Aug 2025	1255551	<0.001	<0.001	<0.001	-	-	<0.005	-	-
Normal	BH02	11 Aug 2025	ES2524646	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005
Normal	BH03	11 Aug 2025	ES2524646	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005

Table E3: Summary of Groundwater Results				Volatile Organic Compounds								
				2-Butanone (MEK)	1,2-Dibromoethane	4-Chlorotoluene	4-Methyl-2-pentanone (MIBK)	2-Chlorotoluene	2-Hexanone (MBK)	Bromobenzene	Bromomethane	Carbon disulfide
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL				**0.005**	**0.001**	**0.001**	**0.005**	**0.005**	**0.05**	**0.001**	**0.005**	**0.001**
ANZG Marine Water Toxicant DGVs LOSP 95% (June 2025)				-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1C GILs, Marine Waters				-	-	-	-	-	-	-	-	-
Sample Type	Field ID	Date	Lab Report Number									
Normal	BH01	11 Aug 2025	ES2524646	<0.05	<0.005	<0.005	<0.05	<0.005	<0.05	<0.005	<0.05	<0.005
Field_D	DUP1 Repliate of BH01	11 Aug 2025	ES2524646	<0.05	<0.005	<0.005	<0.05	<0.005	<0.05	<0.005	<0.05	<0.005
Interlab_D	TRIP 1 Replicate of BH01	11 Aug 2025	1255551	<0.005	<0.001	<0.001	<0.005	-	-	<0.001	<0.005	**0.005**
Normal	BH02	11 Aug 2025	ES2524646	<0.05	<0.005	<0.005	<0.05	<0.005	<0.05	<0.005	<0.05	<0.005
Normal	BH03	11 Aug 2025	ES2524646	<0.05	<0.005	<0.005	<0.05	<0.005	<0.05	<0.005	<0.05	<0.005

Table E3: Summary of Groundwater Results												
				Chlorobenzene	Dichlorodifluoromethane	Formaldehyde	Total MAH	Allyl chloride	Iodomethane	Pentachloroethane	Trichlorofluoromethane	Vinyl acetate
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL				**0.001**	**0.005**	**0.1**	**0.003**	**0.001**	**0.001**	**0.005**	**0.005**	**0.05**
ANZG Marine Water Toxicant DGVs LOSP 95% (June 2025)				0.055	-	-	-	-	-	0.08	-	-
NEPM 2013 Table 1C GILs, Marine Waters				-	-	-	-	-	-	-	-	-
Sample Type	Field ID	Date	Lab Report Number									
Normal	BH01	11 Aug 2025	ES2524646	<0.005	<0.05	**5.3**	-	-	<0.005	<0.005	<0.05	<0.05
Field_D	DUP1 Repliate of BH01	11 Aug 2025	ES2524646	<0.005	<0.05	**5.1**	-	-	<0.005	<0.005	<0.05	<0.05
Interlab_D	TRIP 1 Replicate of BH01	11 Aug 2025	1255551	<0.001	<0.005	**2.0**	**0.007**	<0.001	<0.001	-	<0.005	-
Normal	BH02	11 Aug 2025	ES2524646	<0.005	<0.05	**0.5**	-	-	<0.005	<0.005	<0.05	<0.05
Normal	BH03	11 Aug 2025	ES2524646	<0.005	<0.05	**0.3**	-	-	<0.005	<0.005	<0.05	<0.05

APPENDIX F: CALIBRATION CERTIFICATES

Multi Parameter Water Meter

Instrument **YSI Quatro Pro Plus**
Serial No. **23E102256**

airmet
Air-Met Scientific Pty Ltd
1300 137 067

Item	Test	Pass	Comments
Battery	Charge Condition	✓	
	Fuses	✓	
	Capacity	✓	
Switch/keypad	Operation	✓	
Display	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)		pH 7.00		433551	6.89
2. pH 4.00 (pH)		pH 4.00		429462	3.80
3. ORP (mV)		231.80		A439985/B435258	231.8
4. EC (mS)		2760		433489	2744
5. D.O		0.0%		432901	-0.5%
6. Temp (°C)		21.0		MultiTherm	22.5

Calibrated by: **Nausheen Mazari**

Calibration date: **13/05/2025**

Next calibration due: **12/06/2025**

Oil / Water Interface Meter

airmet

Air-Met Scientific Pty Ltd
1300 137 067

Instrument **Interface Meter (30M)**
Serial No. **484811**

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: **Ana Pantoja**

Calibration date: **13/05/2025**

Next calibration due: **12/06/2025**

Air-Met Scientific
7-11 Ceylon Street
Nunawading
VIC 3131, Australia
Tel: 1800 000 744
Fax: 03 8878 3344

CERTIFICATE OF CALIBRATION

This document certifies that the instrument detailed has been calibrated to the parameters listed below

Certificate Number : 20M100102-R-2-20250807
Calibration Date: 7/08/2025
Next Calibration Due: 7/08/2026

Customer: Air-Met Scientific (National Rental)
Address: 36 Punch Street , , ARTARMON , 2064
Equipment No: EP020992
Unit Under Test: YSI ProPlus Water Quality Meter
Serial No: 20M100102
Service Order No: CAL01462

Test Results

Item	Test	Pass	Comments
BATTERY	Capacity checked	Pass	
DISPLAY	Display/Backlight checked	Pass	
PCB	Inspected	Pass	
CASE	Inspected & Cleaned	Pass	
KEYPAD	Function checked	Pass	
SENSOR(S)	Cleaned	Pass	

Reference Equipment :

Equipment ID	Description	Expiry Date	Reference Certificate Number
NSW COND	Conductivity (2760 @ 25C)	20/08/2026	442541
NSW PH7	PH7 Solution	26/02/2027	441784
NSW PH4	pH 4	15/09/2026	443801
NSW ORP A	Zobell A	1/09/2026	434482
NSW ORP B	Zobell B	1/06/2027	447912
NSW DO	DO Powder	1/03/2027	432901

Results :

Sensor	Units	Applied Value	Results		Pass/ Fail	Comments
			As Found	As Left		
TEMPERATURE	°C	19.4	19.2	19.2	Pass	
CONDUCTIVITY	µS/cm	2760	2674	2761	Pass	
PH4	pH	4	4.48	3.99	Pass	
PH7	pH	7	7.48	6.95	Pass	

Certified System
Quality
ISO 9001
SAI GLOBAL

ORP	ORP	235.32	217.5	235.8	Pass	
DISSOLVED OXYGEN	%	0	0.9	-0.1	Pass	

Notes :

Signed: DENNIS.BOYLE

Calibrated By: DENNIS.BOYLE

Certified System
Quality
ISO 9001
SAI GLOBAL

Air-Met Scientific
7-11 Ceylon Street
Nunawading
VIC 3131, Australia
Tel: 1800 000 744
Fax: 03 8878 3344

CERTIFICATE OF CALIBRATION

This document certifies that the instrument detailed has been calibrated to the parameters listed below

Certificate Number :
Calibration Date: 6/08/2025
Next Calibration Due: 6/09/2025

Customer: Air-Met Scientific (National Rental)
Address: 36 Punch Street , , ARTARMON , 2064
Equipment No: EP021134
Unit Under Test: Tiger PhoCheck VOC Detector - Data Logging PPM
Serial No: T-118249
Service Order No: CAL01362

Test Results

Item	Test	Pass	Comments
BATTERY	Capacity checked	Pass	
BATTERY	Charging Confirmed	Pass	
CASE	Inspected & Cleaned	Pass	
DISPLAY	Display/Backlight checked	Pass	
DISPLAY	Display/Backlight checked	Pass	
FILTER	Inspected	Pass	
FLOWRATE	Flowrate checked	Pass	

Reference Equipment :

Equipment ID	Description	Expiry Date	Reference Certificate Number

Results :

Sensor	Units	Applied Value	Results		Pass/ Fail	Comments
			As Found	As Left		
PID	ppm	95	85.8	95	Pass	

Notes :

Calibrated By: ALEX.BUIST

Signed: *ALEX.BUIST*

Certified System
Quality
ISO 9001

Air-Met Scientific
7-11 Ceylon Street
Nunawading
VIC 3131, Australia
Tel: 1800 000 744
Fax: 03 8878 3344

CERTIFICATE OF CALIBRATION

This document certifies that the instrument detailed has been calibrated to the parameters listed below

Certificate Number : 312529-R-1-20250807
Calibration Date: 7/08/2025
Next Calibration Due: 30/12/1899

Customer: Air-Met Scientific (National Rental)
Address: 36 Punch Street , , ARTARMON , 2064
Equipment No: EP020069
Unit Under Test: Solinst 122 Interface Meter 30m
Serial No: 312529
Service Order No: CAL01385

Test Results

Item	Test	Pass	Comments
GAUGE	Inspected	Pass	
FRAME	Inspected	Pass	
CASE	Inspected & Cleaned	Pass	
BATTERY	Capacity checked	Pass	
SEALS	Inspected	Pass	
SOLENOID	Inspected	Pass	
DISPLAY	Display/Backlight checked	Pass	

Reference Equipment :

Equipment ID	Description	Expiry Date	Reference Certificate Number

Results :

Sensor	Units	Applied Value	Results		Pass/ Fail	Comments
			As Found	As Left		

Notes :

Calibrated By: CHRISTOPHER.NICDAO

Signed: CHRISTOPHER.NICDAO

Certified System
Quality
ISO 9001
SAI GLOBAL

APPENDIX G: DATA VALIDATION ASSESSMENT

1. QUALITY ASSURANCE / QUALITY CONTROL

1.1 QUALITY CONTROL

The recommendations of this procedure are based on the guidelines presented in:

- NEPM - the National Environment Protection (Assessment of Site Contamination) Measure 1999 as amended 2013;
- NSW EPA (2022) Sampling Design Part 1 – Application: Contaminated Land Guidelines (Sampling Design Guidelines)
- NSW EPA (2022) Sampling Design Part 2 – Interpretation: Contaminated Land Guidelines (Sampling Design Guidelines)
- AS4482.1 Guide to the sampling and investigation of potentially contaminated soil, Part 1: Non Volatile and Semi-volatile Substances; and
- WA Department of Health (2021) Guidelines for the Assessment, Remediation and Management of Asbestos Contaminated Sites in Western Australia (WA DoH, 2021).

1.2 FIELD QUALITY CONTROL SAMPLES

Samples were collected by competent field personnel experienced in sampling materials with ACM, and contaminated sites.

Field quality control samples were analysed for the analytes tested in the primary samples. Table 1 provides a summary of the field quality control samples collected.

Table 1: Field Quality Control Samples

Sample Type	Comments
Intra-laboratory duplicates	Intra-laboratory field duplicates were collected and analysed at a minimum frequency of one sample per twenty samples collected (5%). The analytical results of the duplicate samples were compared to assess the precision of the sampling protocol and to provide an indication of variation in the sample source. Repeatability was assessed by calculating the relative percentage difference (RPD) between the primary and duplicate results. Potential causes of variability were reviewed where the RPD was greater than: • 30% where the concentration is >20 x the laboratory limit of reporting (LOR) • 50% where the concentration is 10-20 the LOR • No limit where the concentration is <10 x the LOR.
Inter-laboratory triplicates	Inter-laboratory field triplicates were collected at a frequency of one sample per twenty samples collected (5%). The analytical results of the triplicate samples were compared to assess the precision of the sampling protocol, provide an indication of variation in the sample source and to assess the accuracy of analysis. Reproducibility was assessed by calculating the relative percentage difference (RPD) between the primary and triplicate sample results.

Sample Type	Comments
Trip blanks	Trip blanks were prepared by the laboratory and were a check on sample contamination originating from sample transport, shipping and site conditions. The blanks remained with the sample containers during sampling and during the return trip to the laboratory. The blanks were not opened. Upon return to the laboratory the blank samples were analysed as any other field sample. A trip blank sample was used for the duration of the field work. Results should not be above the laboratory LOR for all analytes.
Trip spikes	Trip spikes were prepared by the laboratory and were a check on sample preservation methods for volatile analytes. Trip spikes were used at a rate of one sample for the duration of field work.

1.3 LABORATORY QA/QC

The analytical laboratories undertook their own quality control which will included:

- Laboratory analysis of samples was undertaken by laboratories using NATA accredited methods; and
- Laboratory analysis included reagent blanks, spike samples, duplicate spikes, matrix spikes, and surrogates spikes and duplicates to assess the laboratory quality control.

Exceedances of laboratory control duplicates are discussed in this Appendix.

1.4 DATA QUALITY INDICATORS

Data Quality Indicators (DQIs) were used to show that the DQOs had been met. DQIs for the project were based on the field and laboratory considerations in Section 19.6 of ASC NEPM Schedule B2 Appendix B, which included:

- Completeness – A measure of the amount of useable data (expressed as %) from a data collection activity;
- Comparability – The confidence (expressed qualitatively) that data may be considered to be equivalent for each sampling and analytical event;
- Representativeness – The confidence (expressed qualitatively) that data are representative of each media present on the Site;
- Precision – A quantitative measure of the variability (or reproducibility) of data;
- Accuracy – A quantitative measure of the closeness of reported data to the true value; and

This QA review included a check of performance against the DQIs. The DQIs adopted for this investigation and means by which they were assessed is discussed in Tables 2 to 6.

Table 2: DQI Completeness

DQI	Field Considerations	DQI Criteria	Laboratory Considerations	DQI Criteria
Completeness	Critical locations sampled.	Samples were collected from nominated locations with no deviation from the sampling plan, without reasonable justification.	Critical samples analysed according to sampling plan.	Samples were analysed for COPCs described in the report.
	Samples collected.	Samples were collected in accordance with Coffey's standard operating procedures (SOPs) during the assessment.	Identified COPCs included.	Samples were analysed for COPCs described in the report.
	SOPs appropriate and complied with.	No departure from Coffey SOPs without reasonable justification.	Appropriate methods and LORs	Samples were analysed by NATA accredited laboratories, for the analyses to be performed and appropriate methods were used. LORs were less than the assessment criteria.
	Experienced sampler.	Experienced Coffey Environmental Scientists completed the sampling.	Sample documentation complete.	Chain of custody (COC) were returned, signed and dated by laboratory. NATA endorsed laboratory certificates were completed in accordance with Schedule B3 of the ASC NEPM. Field logs were completed in accordance with Coffey SOPs. Field data and calibration certificates were provided for the equipment used.
	Correct Documentation.	Samples were handled and transported under appropriate COC documentation. Coffey kept the original COC documentation. Sample Receipt Notifications (SRN) from the laboratory was reviewed to assess that samples were received cool and in good condition. Current calibration certificates were provided for the equipment used.	Sample holding times were complied with.	Samples were analysed within holding times specified in Schedule B3 of the ASC NEPM.

Table 3: DQI Comparability

DQI	Field Considerations	DQI Criteria	Laboratory Considerations	DQI Criteria
Comparability	Same SOPs were used on each occasion.	Coffey SOPs were implemented.	Same sample analytical methods were used.	The same NATA accredited laboratories were used to undertake analyses of primary, duplicate samples collected for this assessment. The laboratories used the same analytical methods for each sample and for each analytical parameter. Field data and calibration certificates were provided for the equipment used.
	Experienced sampler.	Experienced Coffey Environmental Scientists completed the sampling.	Same sample LORs.	
	Climatic conditions (temperature, rainfall, wind etc.)	Coffey attempted to sample in similar climatic conditions where practicable.	Same laboratories.	
	Same types of samples collected	Samples were collected in the appropriate laboratory supplied container specific to the analyses performed.	Same units.	

Table 4: DQI Representativeness

DQI	Field Considerations	DQI Criteria	Laboratory Considerations	DQI Criteria
Representativeness	Appropriate media sampled according to sample plan.	Samples were collected and analysed in accordance with Coffey's SOPs.	Appropriate media was sampled according to the Proposal prepared for this assessment.	Collected samples were analysed by NATA accredited laboratories. Field data and calibration certificates were provided for the equipment used.
	All media identified in sample plan.	Samples were collected and analysed in accordance with Coffey's SOPs.	-	-
	SOPs appropriate and complied.	Coffey's SOPs were implemented.	Analysis of field duplicates and triplicates.	Laboratory duplicates were analysed in general accordance with ASC NEPM. Duplicate and triplicate samples were collected and analysed.

Table 5: DQI Precision

DQI	Field Considerations	DQI Criteria	Laboratory Considerations	DQI Criteria
Precision	Appropriate SOPs were complied with.	Coffey's SOPs were implemented.	Analysis of laboratory duplicates and triplicates.	RPD values for laboratory duplicates and triplicates and recovery of matrix spikes should be within acceptable ranges. Field data and calibration certificates were provided for the equipment used.
	Analysis of field duplicates	As for laboratory considerations.	Analysis of field duplicates.	Duplicates and triplicates were analysed at a frequency of greater than one intra laboratory duplicate and one inter laboratory triplicate sample per 20 primary samples. RPDs were calculated and compared to relevant acceptance criteria. Coffey adopted 30% for concentrations more than 10 times the LOR and 50% for concentrations less than 10 times the LOR (Standards Australia, 1999)

Table 6: DQI Accuracy

DQI	Field Considerations	DQI Criteria	Laboratory Considerations	DQI Criteria
Accuracy	Appropriate SOP complied with.	Coffey SOPs were implemented.	Same sample analytical methods were used.	The same NATA accredited laboratories were used to undertake analyses of primary and duplicate samples collected for this assessment. The laboratories used the same analytical methods for each sample and for each analytical parameter. Field data and calibration certificates were provided for the equipment used.
	Trip blanks.	Trip blank sample was collected using laboratory supplied distilled water.	Field blanks.	A laboratory prepared trip blank was included where volatile compounds were requested for analysis (as defined in AS4482.2-1999 and Schedule B2 in the ASC NEPM). Analysis of the trip blank included TRH F1 and BTEX.
	Trip Spikes.	Trip spike was prepared by the laboratory and was carried into the field and transported with samples to the laboratory.	Method blank.	Method blanks were analysed as recommended in Schedule B3 of the ASC NEPM. Results should be less than LOR. Where method blanks were in excess of the LORs, justification for the use of such data was provided or additional analysis was considered.
	-	-	Laboratory duplicate and Matrix spike.	RPD values for laboratory control duplicates and recovery of matrix spikes should be within acceptance limits.

DATA VALIDATION REPORT
Job No: SYDGE381816
Lab Batch References – Refer to Appendix H

I. SAMPLE HANDLING

	Yes	No (Comment below)
1. Were the sample **holding times** met?	☐	☒
2. Were the samples in **proper custody** between the field and reaching the laboratory?	☒	☐
3. Were the samples **properly and adequately** preserved? *This includes keeping the samples chilled, where applicable.*	☒	☐
4. Were the samples received by the laboratory in good condition?	☒	☐

COMMENTS:

Refer to Lab reports in Appendix H for details.

Sample Handling was: ☒ Satisfactory ☐ Partially Satisfactory ☐ Unsatisfactory

II PRECISION/ACCURACY ASSESSMENT

	Yes	No (Comment below)
1. Was a NATA registered laboratory used?	☒	☐
2. Did the laboratory perform the requested tests?	☒	☐
3. Were the laboratory methods adopted NATA endorsed?	☒	☐
4. Were the appropriate test procedures followed?	☒	☐
5. Were the reporting limits satisfactory?	☒	☐
6. Was the NATA Seal on the reports?	☒	☐
7. Were the reports signed by an authorised person?	☒	☐

COMMENTS:

N/A

Precision/Accuracy of the Laboratory Report	☒ Satisfactory	☐ Unsatisfactory
	☐ Partially Satisfactory	

III. FIELD QA/QC

1.	Number of Samples Analysed	Soil:	21
		Water:	3
2.	Number of Days of Sampling:	Soil:	1
		Water:	1

3. Number and Type of QA/QC Samples Collected:

Quality Control Sample Type	No.	% Total No. Samples
Soil		
Intra-lab Duplicates	1	5
Inter-lab Triplicates	1	5
Trip Blank	1	-
Trip Spike	1	-
Rinsate	1	-
Water		
Intra-lab Duplicates	1	33
Inter-lab Triplicates	1	33
Trip Blank	1	-
Trip Spike	1	-
Rinsate	1	-

DATA VALIDATION REPORT
Job No: SYDGE381816
Lab Batch References – Refer to Appendix H

FIELD DUPLICATES & TRIPLICATES

	Yes	No (Comment below)
A. Were an Adequate Number of field duplicates analysed for each chemical?	☒	☐
B. Were RPDs within Control Limits?		
a. Organics (No limit (<10 x LOR); 50% (10-20 x LOR); 30% (>20 x LOR))	☐	☒
b. Metals/Inorganics (No limit (<10 x LOR); 50% (10-20 x LOR); 30% (>20 x LOR))	☐	☒
c. Volatile & semi volatile organics (No limit (<10 x LOR); 50% (10-20 x LOR); 30% (>20 x LOR))	☐	☒

COMMENTS:

The comparison of soil and groundwater primary/duplicate samples is presented at the end of this Appendix.

In general, the comparison of primary and duplicate / triplicate samples showed good reproducibility with RPD values within acceptable tolerances.

Some variance was observed in the analysis of samples, which is likely attributable to the heterogeneous nature of the media being sampled (fill). Overall, it is considered the variability did not alter the outcome of this investigation.

IV. TRIP BLANK (TB) AND TRIP SPIKE (TS) SAMPLES

	Yes	**No** (Comment below)
A. Were an Adequate Number of trip blanks and spikes analysed?	☒	☐
B. Were the trip blanks and rinsate samples free of contaminants and trip spike were within acceptance limit?	☒	☐
C. Were the trip spikes reported within acceptable recoveries?	☒	☐

V. LABORATORY INTERNAL QUALITY CONTROL PROCEDURES

1. Type of QA/QC Samples

The laboratory conducted their own internal quality program for assessment of the repeatability of the analytical procedures and instrument accuracy under their NATA accreditation. This included analysis of laboratory blank samples, duplicate samples, spike samples, control samples and surrogate spikes. The laboratory QA/QC procedures and results are described within the laboratory reports presented in Appendix H.

Lab Internal QC Procedures	Yes	No
Laboratory Blanks/Reagent Blanks	☒	☐
Laboratory Duplicates	☒	☐
Matrix Spikes/Matrix Spike Duplicates	☒	☐
Laboratory Control Spike	☒	☐
Surrogate (where appropriate) *	☒	☐

	Yes	**No** (Comment below)
2 Were the laboratory blanks/reagents blanks free of contamination?	☒	☐
3. Were the spike recoveries within control limits?	☒	☐
4. Were the RPDs of the laboratory duplicates within control limits?	☐	☒
5. Were the surrogate recoveries within control limits?	☒	☐

Note: Eurofins reported an RPD failure for PAH and metals (Q15).
Q15 qualifying code was applied - The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of the report.

Eurofins also reported an RPD failure for metals, PAH and TRH (Q08).
Q08 qualifying code was applied - 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.

5. The laboratory internal QA/QC was:	☒ Satisfactory	☐ Unsatisfactory
	☐ Partially Satisfactory	

VI DATA USABILITY

1.	Data Directly Usable	☒
2.	Data Usable with the following considerations	☐
3.	Data Not Usable.	☐

COMMENTS:

Overall, Coffey consider that the data collected from this investigation is usable for the assessment of potential contamination risks.

Field or Interlab Duplicates

			Field ID	BH106_0.2-0.3	DUP2		BH106_0.2-0.3	TRIP 2	
			Date	11 Aug 2025	11 Aug 2025		11 Aug 2025	11 Aug 2025	
			Matrix Type	Soil	Soil		Soil	Soil	
			Lab Report Number	ES2524646	ES2524646	RPD	ES2524646	1255551	RPD
	Unit	EQL							
Metals									
Arsenic	mg/kg	2	5	7	33	5	5.4	8
Cadmium	mg/kg	0.4	<1	<1	0	<1	<0.4	0
Chromium	mg/kg	2	11	19	53	11	17	43
Copper	mg/kg	5	56	46	20	56	140	86
Mercury	mg/kg	0.1	0.1	0.1	0	0.1	<0.1	0
Nickel	mg/kg	2	15	15	0	15	15	0
Silver	mg/kg	2	<2	<2	0	<2	<2	0
Lead	mg/kg	5	86	157	58	86	110	24
Zinc	mg/kg	5	343	2,770	156	343	2,700	155
Polycyclic Aromatic Hydrocarbons									
Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5	1.2	1.6	29	1.2	1.2	0
Benzo(a)pyrene TEQ calc (Half)	mg/kg	0.5	0.9	1.3	36	0.9	0.6	40
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	0.5	0.6	1.0	50	0.6	<0.5	18
Anthracene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0
Pyrene	mg/kg	0.5	1.1	1.2	9	1.1	<0.5	75
Benzo(g,h,i)perylene	mg/kg	0.5	<0.5	0.6	18	<0.5	<0.5	0
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0
Benzo(b+j)fluoranthene	mg/kg	0.5	0.7	1.0	35	0.7	<0.5	33
Fluoranthene	mg/kg	0.5	1.1	1.2	9	1.1	<0.5	75
Benzo(k)fluoranthene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0
Acenaphthylene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0
Chrysene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0
Benzo(a) pyrene	mg/kg	0.5	0.5	0.8	46	0.5	<0.5	0
Dibenz(a,h)anthracene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0
Benz(a)anthracene	mg/kg	0.5	<0.5	0.6	18	<0.5	<0.5	0
Acenaphthene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0
Phenanthrene	mg/kg	0.5	0.5	<0.5	0	0.5	<0.5	0
Fluorene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0
PAHs (Sum of total)	mg/kg	0.5	3.9	5.4	32	3.9	<0.5	155
Naphthalene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 30 (1 - 10 x EQL); 30 (10 - 10 x EQL); 30 (> 10 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

Field or Interlab Duplicates

		Field ID	BH01	DUP1		BH01	TRIP 1	
		Date	11 Aug 2025	11 Aug 2025		11 Aug 2025	11 Aug 2025	
		Matrix Type	Water	Water		Water	Water	
		Lab Report Number	ES2524646	ES2524646	RPD	ES2524646	1255551	RPD
	Unit	**EQL**						
Metals								
Arsenic	mg/L	**0.001**	**0.004**	**0.003**	29	**0.004**	<0.001	**120**
Cadmium	mg/L	**0.0001**	<0.0001	<0.0001	0	<0.0001	<0.0002	0
Chromium	mg/L	**0.001**	**0.029**	**0.022**	27	**0.029**	**0.008**	**114**
Copper	mg/L	**0.001**	**0.033**	**0.027**	20	**0.033**	**0.002**	**177**
Mercury	mg/L	**0.0001**	<0.0001	<0.0001	0	<0.0001	<0.0001	0
Nickel	mg/L	**0.001**	**0.041**	**0.025**	**48**	**0.041**	**0.025**	**48**
Silver	mg/L	**0.001**	<0.001	<0.001	0	<0.001	<0.005	0
Lead	mg/L	**0.001**	**0.010**	**0.008**	22	**0.010**	**0.002**	**133**
Zinc	mg/L	**0.005**	**0.139**	**0.105**	28	**0.139**	**0.096**	**37**
Volatile Organic Compounds								
1,2,3-Trichlorobenzene	mg/L	**0.005**	<0.005	<0.005	0	<0.005	-	-
Acetone	mg/L	**0.005**	-	-	-	-	<0.005	-
1,4-Dichloro-2-Butene [cis]	mg/L	**0.005**	<0.005	<0.005	0	<0.005	-	-
1,4-Dichloro-2-Butene [trans]	mg/L	**0.005**	<0.005	<0.005	0	<0.005	-	-
2-Butanone (MEK)	mg/L	**0.005**	<0.05	<0.05	0	<0.05	<0.005	0
1,2-Dibromoethane	mg/L	**0.001**	<0.005	<0.005	0	<0.005	<0.001	0
4-Chlorotoluene	mg/L	**0.001**	<0.005	<0.005	0	<0.005	<0.001	0
4-Methyl-2-pentanone (MIBK)	mg/L	**0.005**	<0.05	<0.05	0	<0.05	<0.005	0
2-Chlorotoluene	mg/L	**0.005**	<0.005	<0.005	0	<0.005	-	-
2-Hexanone (MBK)	mg/L	**0.05**	<0.05	<0.05	0	<0.05	-	-
Bromobenzene	mg/L	**0.001**	<0.005	<0.005	0	<0.005	<0.001	0
Bromomethane	mg/L	**0.005**	<0.05	<0.05	0	<0.05	<0.005	0
Carbon disulfide	mg/L	**0.001**	<0.005	<0.005	0	<0.005	**0.005**	0
Chlorobenzene	mg/L	**0.001**	<0.005	<0.005	0	<0.005	<0.001	0
Dichlorodifluoromethane	mg/L	**0.005**	<0.05	<0.05	0	<0.05	<0.005	0
Formaldehyde	mg/L	**0.1**	**5.3**	**5.1**	4	**5.3**	**2.0**	**90**
Iodomethane	mg/L	**0.001**	<0.005	<0.005	0	<0.005	<0.001	0
Pentachloroethane	mg/L	**0.005**	<0.005	<0.005	0	<0.005	-	-
Trichlorofluoromethane	mg/L	**0.005**	<0.05	<0.05	0	<0.05	<0.005	0
Vinyl acetate	mg/L	**0.05**	<0.05	<0.05	0	<0.05	-	-

*RPDs have only been considered where a concentration is greater than 1 times the EQL.

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 30 (1 - 20 x EQL); 30 (20 - 20 x EQL); 30 (> 20 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

Laboratory Duplicates

				Asbestos							Physical Parameters		Metals								BTEX							
				Asbestos (Trace)	Asbestos Type	APPROVED IDENTIFIER:	Description	Organic Fibre	Synthetic Mineral Fibre	Asbestos fibres	Moisture Content	Moisture Content (dried @ 103°C)	Arsenic	Cadmium	Chromium	Copper	Mercury	Nickel	Silver	Lead	Zinc	Naphthalene (VOC)	Benzene	Ethylbenzene	Toluene	Xylenes Total	Xylene (o)	Xylenes (m & p)	Total BTEX
				Fibres	Detect	--	--	g/kg	g/kg	g/kg	%	%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL										**0.1**	**1**	**1**	**2**	**0.4**	**2**	**5**	**0.1**	**2**	**2**	**5**	**5**	**0.5**	**0.1**	**0.1**	**0.1**	**0.3**	**0.1**	**0.2**	**0.2**
Field ID	Date	Matrix Type	Lab Report Number																										
	06 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<0.2	<0.5	<0.5	-	<0.5	<0.5	-
	13 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<0.2	<0.5	<0.5	-	<0.5	<0.5	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	-	0	0	-
	07 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	**5.3**	<0.4	**21**	**73**	<0.1	**6.7**	<2	**21**	**26**	-	-	-	-	-	-	-	-
	07 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	**3.5**	<0.4	**13**	**68**	**0.1**	**5.2**	<2	**16**	**23**	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	**41**	0	**47**	7	0	**25**	0	**27**	**12**	-	-	-	-	-	-	-	-
	07 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	**7**	<1	**8**	**7**	<0.1	**11**	<2	**6**	**23**	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	<5	<1	**7**	**9**	<0.1	**10**	<2	<5	**23**	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	**33**	0	**13**	**25**	0	**10**	0	**18**	0	-	-	-	-	-	-	-	-
	07 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	**8.9**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	**8.6**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	**3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	08 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	**31.9**	-	**12**	<1	**26**	**98**	**2.0**	**5**	<2	**128**	**196**	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	**10**	<1	**20**	**80**	**1.8**	**5**	<2	**135**	**199**	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	**18**	0	**26**	20	11	0	0	5	2	-	-	-	-	-	-	-	-
	08 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	**31.9**	-	**12**	<1	**26**	**98**	**2.0**	**5**	<2	**128**	**196**	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	**26.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP 2	11 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	**11**	**5.4**	<0.4	**17**	**140**	<0.1	**15**	<2	**110**	**2,700**	<0.5	<0.1	<0.1	<0.1	<0.3	<0.1	<0.2	-
TRIP 2	11 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.1	<0.1	<0.3	<0.1	<0.2	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	-
BH102_0-0.1	11 Aug 2025	Soil	ES2524646	**0**	**1**	**1**	**1**	**0**	**0**	**0**	**8.7**	-	<5	<1	**7**	**93**	<0.1	**52**	**5**	<5	**29**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	<5	<1	**6**	**98**	<0.1	**53**	**4**	<5	**31**	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	0	0	**15**	5	0	2	**22**	0	**7**	-	-	-	-	-	-	-	-
BH104_0.2-0.3	11 Aug 2025	Soil	ES2524646	**0**	**1**	**1**	**1**	**0**	**0**	**0**	**10.7**	-	<5	<1	**16**	**32**	**0.3**	**17**	<2	**157**	**239**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
	13 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<0.2	<0.5	<0.5	-	<0.5	<0.5	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	-	0	0	-
BH104_0.3-0.4	11 Aug 2025	Soil	ES2524646	**0**	**1**	**1**	**1**	**0**	**0**	**0**	**14.9**	-	**7**	<1	**11**	**6**	<0.1	<2	<2	**46**	**43**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	**10.1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH104_0.8-0.9	11 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	**11.6**	-	<5	<1	**5**	<5	<0.1	<2	<2	**16**	**13**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH105_0.2-0.3	11 Aug 2025	Soil	ES2524646	**0**	**1**	**1**	**1**	**0**	**0**	**0**	**13.0**	-	**16**	<1	**9**	**87**	<0.1	**21**	<2	**47**	**194**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
	13 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH107_0.2-0.3	11 Aug 2025	Soil	ES2524646	**0**	**1**	**1**	**1**	**0**	**0**	**0**	**4.5**	-	<5	<1	**7**	**10**	**0.5**	**4**	<2	**130**	**91**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	<5	<1	**8**	**8**	**0.7**	**4**	<2	**139**	**105**	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	0	0	**13**	**22**	**33**	0	0	7	14	-	-	-	-	-	-	-	-
BH108_0.1-0.2	11 Aug 2025	Soil	ES2524646	**0**	**1**	**1**	**1**	**0**	**0**	**0**	**9.6**	-	<5	<1	**12**	**15**	**0.1**	**5**	<2	**112**	**75**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	**9.9**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	**3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP2	11 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	**10.3**	-	**7**	<1	**19**	**46**	**0.1**	**15**	<2	**157**	**2,770**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
	13 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<0.2	<0.5	<0.5	-	<0.5	<0.5	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	-	0	0	-
DUP2	11 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	**10.3**	-	**7**	<1	**19**	**46**	**0.1**	**15**	<2	**157**	**2,770**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
	13 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP2	11 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	**10.3**	-	**7**	<1	**19**	**46**	**0.1**	**15**	<2	**157**	**2,770**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP2	11 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	**10.3**	-	**7**	<1	**19**	**46**	**0.1**	**15**	<2	**157**	**2,770**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
	13 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	**10.4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	**57**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	**58**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: (1 - 10 x EQL); 50 (10 - 20 x EQL); 30 (> 20 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

Laboratory Duplicates

				Monocyclic Aromatic Hydrocarbons				Polycyclic Aromatic Hydrocarbons																				
				1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Iso-Propylbenzene (cumene)	Styrene	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ calc (Zero)	Anthracene	Pyrene	Benzo(g,h,i)perylene	Indeno(1,2,3-c,d)pyrene	Benzo(b+j)fluoranthene	Fluoranthene	Benzo(k)fluoranthene	Acenaphthylene	Chrysene	Benzo(a) pyrene	Dibenz(a,h)anthracene	Benz(a)anthracene	Acenaphthene	Phenanthrene	Fluorene	PAHs (Sum of total)	Naphthalene	F1 (C6-C10)	F1 (C6-C10) less BTEX
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**10**	**10**
Field ID	Date	Matrix Type	Lab Report Number																										
	06 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-
	13 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-
	07 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	08 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	08 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	**0.5**	**1.5**	<0.5	<0.5	<0.5	**1.8**	**0.6**	<0.5	**0.8**	**0.7**	<0.5	**0.6**	<0.5	**1.1**	<0.5	-	<0.5	-	-
	11 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	**0.7**	**2.1**	**1.0**	**0.6**	**0.6**	**2.2**	**0.7**	<0.5	**1.0**	**1.1**	<0.5	**0.8**	<0.5	**1.4**	<0.5	-	<0.5	-	-
RPD				-	-	-	-	-	-	-	**33**	**33**	**67**	**18**	**18**	**20**	**15**	0	**22**	**44**	0	**29**	0	**24**	0	-	0	-	-
TRIP 2	11 Aug 2025	Soil	1255551	<0.5	<0.5	<0.5	<0.5	**1.2**	**0.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20
TRIP 2	11 Aug 2025	Soil	1255551	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<20	-
RPD				0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-
BH102_0-0.1	11 Aug 2025	Soil	ES2524646	-	-	-	-	**1.2**	**0.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH104_0.2-0.3	11 Aug 2025	Soil	ES2524646	-	-	-	-	**1.7**	**1.4**	**1.1**	<0.5	**1.9**	**0.6**	<0.5	**1.1**	**1.7**	<0.5	<0.5	**0.6**	**0.9**	<0.5	**0.9**	<0.5	**0.7**	<0.5	**8.4**	<0.5	<10	<10
	13 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-
BH104_0.3-0.4	11 Aug 2025	Soil	ES2524646	-	-	-	-	**1.2**	**0.6**	<0.5	<0.5	**0.6**	<0.5	<0.5	<0.5	**0.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.3**	<0.5	<10	<10
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH104_0.8-0.9	11 Aug 2025	Soil	ES2524646	-	-	-	-	**1.2**	**0.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH105_0.2-0.3	11 Aug 2025	Soil	ES2524646	-	-	-	-	**1.2**	**0.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10
	13 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
RPD				-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-
BH107_0.2-0.3	11 Aug 2025	Soil	ES2524646	-	-	-	-	**1.2**	**0.9**	**0.6**	<0.5	**0.7**	**0.5**	<0.5	**0.8**	**0.7**	<0.5	<0.5	<0.5	**0.5**	<0.5	<0.5	<0.5	<0.5	<0.5	**3.2**	<0.5	<10	<10
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH108_0.1-0.2	11 Aug 2025	Soil	ES2524646	-	-	-	-	**1.2**	**0.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP2	11 Aug 2025	Soil	ES2524646	-	-	-	-	**1.6**	**1.3**	**1.0**	<0.5	**1.2**	**0.6**	<0.5	**1.0**	**1.2**	<0.5	<0.5	<0.5	**0.8**	<0.5	**0.6**	<0.5	<0.5	<0.5	**5.4**	<0.5	<10	<10
	13 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-
DUP2	11 Aug 2025	Soil	ES2524646	-	-	-	-	**1.6**	**1.3**	**1.0**	<0.5	**1.2**	**0.6**	<0.5	**1.0**	**1.2**	<0.5	<0.5	<0.5	**0.8**	<0.5	**0.6**	<0.5	<0.5	<0.5	**5.4**	<0.5	<10	<10
	13 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	**1.0**	<0.5	**0.7**	**0.7**	<0.5	**1.0**	**1.2**	<0.5	<0.5	<0.5	**0.8**	<0.5	**0.5**	<0.5	<0.5	<0.5	**4.9**	<0.5	-	-
RPD				-	-	-	-	-	-	0	0	**53**	**15**	0	0	0	0	0	0	0	0	**18**	0	0	0	**10**	0	-	-
DUP2	11 Aug 2025	Soil	ES2524646	-	-	-	-	**1.6**	**1.3**	**1.0**	<0.5	**1.2**	**0.6**	<0.5	**1.0**	**1.2**	<0.5	<0.5	<0.5	**0.8**	<0.5	**0.6**	<0.5	<0.5	<0.5	**5.4**	<0.5	<10	<10
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP2	11 Aug 2025	Soil	ES2524646	-	-	-	-	**1.6**	**1.3**	**1.0**	<0.5	**1.2**	**0.6**	<0.5	**1.0**	**1.2**	<0.5	<0.5	<0.5	**0.8**	<0.5	**0.6**	<0.5	<0.5	<0.5	**5.4**	<0.5	<10	<10
	13 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range a
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any metl

Laboratory Duplicates

				Total Recoverable Hydrocarbons					Total Petroleum Hydrocarbons					Chlorinated Hydrocarbons														
				F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	C34-C40	C10 - C40 (Sum of total)	F2 C10-C16 (minus Naphthalene)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1-dichloroethane	1,1-dichloroethene	1,2,3-trichloropropane	1,2-dichloroethane	1,2-dichloropropane	1,1,2-trichloroethane	Bromochloromethane	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	1,3-dichloropropane
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				**50**	**100**	**100**	**50**	**50**	**10**	**20**	**50**	**50**	**50**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**
Field ID	Date	Matrix Type	Lab Report Number																										
	06 Aug 2025	Soil	ES2524646	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Soil	ES2524646	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	08 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	08 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP 2	11 Aug 2025	Soil	1255551	<50	<100	<100	<100	<50	<20	<20	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRIP 2	11 Aug 2025	Soil	1255551	-	-	-	-	-	<20	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD				-	-	-	-	-	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BH102_0-0.1	11 Aug 2025	Soil	ES2524646	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH104_0.2-0.3	11 Aug 2025	Soil	ES2524646	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Soil	ES2524646	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH104_0.3-0.4	11 Aug 2025	Soil	ES2524646	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH104_0.8-0.9	11 Aug 2025	Soil	ES2524646	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH105_0.2-0.3	11 Aug 2025	Soil	ES2524646	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Soil	ES2524646	<50	<100	<100	-	-	-	<50	<100	<100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				0	0	0	-	-	-	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH107_0.2-0.3	11 Aug 2025	Soil	ES2524646	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH108_0.1-0.2	11 Aug 2025	Soil	ES2524646	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP2	11 Aug 2025	Soil	ES2524646	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Soil	ES2524646	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP2	11 Aug 2025	Soil	ES2524646	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Soil	ES2524646	<50	<100	<100	-	-	-	<50	<100	<100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				0	0	0	-	-	-	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP2	11 Aug 2025	Soil	ES2524646	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP2	11 Aug 2025	Soil	ES2524646	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	1255551	<50	<100	<100	-	-	-	<20	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	1255551	<50	<100	<100	-	-	-	<20	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				0	0	0	-	-	-	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range a
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any metl

Laboratory Duplicates

																Semivolatile Organic Compounds												Volatile Organic Compounds											
				Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dibromomethane	Dichloromethane	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl chloride	Vic EPA IWRG 621 Chlorinated hydrocarbons (Total)*	Vic EPA IWRG 621 Other cl hydrocarbons (Total)*	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Acetone	2-Butanone (MEK)	1,2-Dibromoethane	4-Chlorotoluene	4-Methyl-2-pentanone (MIBK)	Bromobenzene	Bromomethane	Carbon disulfide	Chlorobenzene	Dichlorodifluoromethane
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	MG/L	MG/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**
Field ID	Date	Matrix Type	Lab Report Number																												
	06 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	08 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	08 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP 2	11 Aug 2025	Soil	1255551	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRIP 2	11 Aug 2025	Soil	1255551	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD				0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BH102_0-0.1	11 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH104_0.2-0.3	11 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH104_0.3-0.4	11 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH104_0.8-0.9	11 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH105_0.2-0.3	11 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH107_0.2-0.3	11 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH108_0.1-0.2	11 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP2	11 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP2	11 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP2	11 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP2	11 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Soil	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range a
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any metl

Laboratory Duplicates

				Formaldehyde	Total MAH	weight of sample	Allyl chloride	Iodomethane	Trichlorofluoromethane	
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
EQL				**1**	**0.5**	**0.0001**	**0.5**	**0.5**	**0.5**	
Field ID	Date	Matrix Type	Lab Report Number							
	06 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	
	13 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	
RPD				-	-	-	-	-	-	
	07 Aug 2025	Soil	1255551	-	-	-	-	-	-	
	07 Aug 2025	Soil	1255551	-	-	-	-	-	-	
RPD				-	-	-	-	-	-	
	07 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	
RPD				-	-	-	-	-	-	
	07 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	
RPD				-	-	-	-	-	-	
	08 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	
RPD				-	-	-	-	-	-	
	08 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	
RPD				-	-	-	-	-	-	
	11 Aug 2025	Soil	1255551	-	-	-	-	-	-	
	11 Aug 2025	Soil	1255551	-	-	-	-	-	-	
RPD				-	-	-	-	-	-	
TRIP 2	11 Aug 2025	Soil	1255551	<1	<0.5	-	<0.5	<0.5	<0.5	
TRIP 2	11 Aug 2025	Soil	1255551	-	-	-	<0.5	<0.5	<0.5	
RPD				-	-	-	0	0	0	
BH102_0-0.1	11 Aug 2025	Soil	ES2524646	<1	-	**8.23**	-	-	-	
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	
RPD				-	-	-	-	-	-	
BH104_0.2-0.3	11 Aug 2025	Soil	ES2524646	<1	-	**4.66**	-	-	-	
	13 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	
RPD				-	-	-	-	-	-	
BH104_0.3-0.4	11 Aug 2025	Soil	ES2524646	<1	-	**6.01**	-	-	-	
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	
RPD				-	-	-	-	-	-	
BH104_0.8-0.9	11 Aug 2025	Soil	ES2524646	<1	-	-	-	-	-	
	14 Aug 2025	Soil	ES2524646	<1	-	-	-	-	-	
RPD				0	-	-	-	-	-	
BH105_0.2-0.3	11 Aug 2025	Soil	ES2524646	<1	-	**5.81**	-	-	-	
	13 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	
RPD				-	-	-	-	-	-	
BH107_0.2-0.3	11 Aug 2025	Soil	ES2524646	<1	-	**4.9**	-	-	-	
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	
RPD				-	-	-	-	-	-	
BH108_0.1-0.2	11 Aug 2025	Soil	ES2524646	<1	-	**4.56**	-	-	-	
	14 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	
RPD				-	-	-	-	-	-	
DUP2	11 Aug 2025	Soil	ES2524646	<1	-	-	-	-	-	
	13 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	
RPD				-	-	-	-	-	-	
DUP2	11 Aug 2025	Soil	ES2524646	<1	-	-	-	-	-	
	13 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	
RPD				-	-	-	-	-	-	
DUP2	11 Aug 2025	Soil	ES2524646	<1	-	-	-	-	-	
	14 Aug 2025	Soil	ES2524646	<1	-	-	-	-	-	
RPD				0	-	-	-	-	-	
DUP2	11 Aug 2025	Soil	ES2524646	<1	-	-	-	-	-	
	13 Aug 2025	Soil	ES2524646	-	-	-	-	-	-	
RPD				-	-	-	-	-	-	
	12 Aug 2025	Soil	1255551	<1	-	-	-	-	-	
	12 Aug 2025	Soil	1255551	**1.0**	-	-	-	-	-	
RPD				0	-	-	-	-	-	
	13 Aug 2025	Soil	1255551	-	-	-	-	-	-	
	13 Aug 2025	Soil	1255551	-	-	-	-	-	-	
RPD				-	-	-	-	-	-	
	14 Aug 2025	Soil	1255551	-	-	-	-	-	-	
	14 Aug 2025	Soil	1255551	-	-	-	-	-	-	
RPD				-	-	-	-	-	-	

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range a
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any metl

Laboratory Duplicates

				Metals									BTEX										
				Arsenic	Cadmium	Chromium	Copper	Mercury	Nickel	Silver	Lead	Zinc	Naphthalene (VOC)	Benzene	Ethylbenzene	Toluene	Xylenes Total	Xylene (o)	Xylenes (m & p)	Total BTEX	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	n-Butylbenzene
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL				**0.001**	**0.0001**	**0.001**	**0.001**	**0.0001**	**0.001**	**0.001**	**0.001**	**0.005**	**0.005**	**0.001**	**0.001**	**0.001**	**0.002**	**0.001**	**0.002**	**0.001**	**0.001**	**0.001**	**0.005**
Field ID	Date	Matrix Type	Lab Report Number																				
	31 Jul 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	31 Jul 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	05 Aug 2025	Water	ES2524646	-	-	-	-	<0.0001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15 Aug 2025	Water	ES2524646	-	-	-	-	<0.0001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	05 Aug 2025	Water	ES2524646	<0.001	<0.0001	<0.001	**0.004**	-	<0.001	-	<0.001	<0.005	-	-	-	-	-	-	-	-	-	-	-
	15 Aug 2025	Water	ES2524646	<0.001	<0.0001	<0.001	**0.004**	-	<0.001	-	<0.001	<0.005	-	-	-	-	-	-	-	-	-	-	-
RPD				0	0	0	0	-	0	-	0	0	-	-	-	-	-	-	-	-	-	-	-
	07 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	<0.005	<0.001	<0.002	<0.002	-	<0.002	<0.002	-	-	-	-
	14 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	<0.005	<0.001	<0.002	<0.002	-	<0.002	<0.002	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	0	0	0	0	-	0	0	-	-	-	-
	07 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	<0.005	<0.001	<0.002	<0.002	-	<0.002	<0.002	-	-	-	-
	14 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	<0.005	<0.001	<0.002	<0.002	-	<0.002	<0.002	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	0	0	0	0	-	0	0	-	-	-	-
	11 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	<0.001	-
	11 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	<0.001	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
	11 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Water	ES2524646	-	-	-	-	-	-	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-
	15 Aug 2025	Water	ES2524646	-	-	-	-	-	-	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Water	ES2524646	-	-	-	-	-	-	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-
	15 Aug 2025	Water	ES2524646	-	-	-	-	-	-	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH01	11 Aug 2025	Water	ES2524646	**0.004**	<0.0001	**0.029**	**0.033**	<0.0001	**0.041**	<0.001	**0.010**	**0.139**	<0.005	<0.001	<0.002	**0.005**	<0.002	<0.002	<0.002	**0.005**	<0.005	<0.005	<0.005
	13 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	<0.005	<0.001	<0.002	**0.006**	-	<0.002	<0.002	-	<0.005	<0.005	<0.005
RPD				-	-	-	-	-	-	-	-	-	0	0	0	**18**	-	0	0	-	0	0	0
Rinsate 1	11 Aug 2025	Water	ES2524646	<0.001	<0.0001	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.005	<0.005	<0.005
	15 Aug 2025	Water	ES2524646	-	-	-	-	<0.0001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rinsate 1	11 Aug 2025	Water	ES2524646	<0.001	<0.0001	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.005	<0.005	<0.005
	13 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	<0.01	<0.001	<0.001	<0.001	<0.003	<0.001	<0.002	-	-	-	-
	12 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	<0.01	<0.001	<0.001	<0.001	<0.003	<0.001	<0.002	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	-	-	-	-
	13 Aug 2025	Water	1255551	<0.001	<0.0002	<0.001	<0.001	<0.0001	<0.001	<0.005	<0.001	<0.005	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Water	1255551	<0.001	<0.0002	<0.001	<0.001	<0.0001	<0.001	<0.005	<0.001	<0.005	-	-	-	-	-	-	-	-	-	-	-
RPD				0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Water	ES2524646	<0.001	<0.0001	<0.001	<0.001	-	**0.018**	<0.001	<0.001	<0.005	-	-	-	-	-	-	-	-	-	-	-
	15 Aug 2025	Water	ES2524646	<0.001	<0.0001	<0.001	<0.001	-	**0.020**	<0.001	<0.001	<0.005	-	-	-	-	-	-	-	-	-	-	-
RPD				0	0	0	0	-	11	0	0	0	-	-	-	-	-	-	-	-	-	-	-

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: (1 - 10 x EQL); 50 (10 - 20 x EQL); 30 (> 20 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

Laboratory Duplicates

				Monocyclic Aromatic Hydrocarbons						Polycyclic Aromatic Hydrocarbons													
				iso-Propylbenzene (cumene)	n-Propylbenzene	sec-Butylbenzene	tert-Butylbenzene	Styrene	p-Isopropyltoluene	Benzo(a)pyrene TEQ calc (Zero)	Anthracene	Pyrene	Benzo(g,h,i)perylene	Indeno(1,2,3-c,d)pyrene	Benzo(b+j)fluoranthene	Fluoranthene	Benzo(k)fluoranthene	Acenaphthylene	Chrysene	Benzo(a) pyrene	Dibenz(a,h)anthracene	Benz(a)anthracene	Acenaphthene
				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**	**0.005**	**0.005**	**0.005**	**0.001**	**0.005**	**0.0005**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.0005**	**0.001**	**0.001**	**0.001**
Field ID	Date	Matrix Type	Lab Report Number																				
	31 Jul 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	31 Jul 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	05 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	05 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Water	1255551	<0.001	-	-	-	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Water	1255551	<0.001	-	-	-	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				0	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Water	1255551	-	-	-	-	-	-	-	<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
	11 Aug 2025	Water	1255551	-	-	-	-	-	-	-	<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
RPD				-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0
	11 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH01	11 Aug 2025	Water	ES2524646	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0005	<0.0010	<0.0010	<0.0010
	13 Aug 2025	Water	ES2524646	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rinsate 1	11 Aug 2025	Water	ES2524646	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0005	<0.0010	<0.0010	<0.0010
	15 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rinsate 1	11 Aug 2025	Water	ES2524646	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0005	<0.0010	<0.0010	<0.0010
	13 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range ar
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any meth

Laboratory Duplicates

								Total Recoverable Hydrocarbons						Total Petroleum Hydrocarbons								
				Phenanthrene	Fluorene	PAHs (Sum of total)	Naphthalene	F1 (C6-C10)	F1 (C6-C10) less BTEX	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	C34-C40	C10 - C40 (Sum of total)	F2 C10-C16 (minus Naphthalene)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1-dichloroethane
				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**	**0.001**	**0.0005**	**0.001**	**0.02**	**0.02**	**0.05**	**0.1**	**0.1**	**0.1**	**0.1**	**0.02**	**0.05**	**0.1**	**0.05**	**0.05**	**0.001**	**0.001**	**0.001**	**0.001**
Field ID	Date	Matrix Type	Lab Report Number																				
	31 Jul 2025	Water	1255551	-	-	-	-	-	-	<0.05	<0.1	<0.1	-	-	-	<0.05	<0.1	<0.1	-	-	-	-	-
	31 Jul 2025	Water	1255551	-	-	-	-	-	-	<0.05	<0.1	<0.1	-	-	-	<0.05	<0.1	<0.1	-	-	-	-	-
RPD				-	-	-	-	-	-	0	0	0	-	-	-	0	0	0	-	-	-	-	-
	05 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	05 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07 Aug 2025	Water	ES2524646	-	-	-	-	<0.02	-	-	-	-	-	-	<0.02	-	-	-	-	-	-	-	-
	14 Aug 2025	Water	ES2524646	-	-	-	-	<0.02	-	-	-	-	-	-	<0.02	-	-	-	-	-	-	-	-
RPD				-	-	-	-	0	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-
	07 Aug 2025	Water	ES2524646	-	-	-	-	<0.02	-	-	-	-	-	-	<0.02	-	-	-	-	-	-	-	-
	14 Aug 2025	Water	ES2524646	-	-	-	-	<0.02	-	-	-	-	-	-	<0.02	-	-	-	-	-	-	-	-
RPD				-	-	-	-	0	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-
	11 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	<0.001	<0.001	<0.001
	11 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	<0.001	<0.001	<0.001
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0
	11 Aug 2025	Water	1255551	<0.001	<0.001	-	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Water	1255551	<0.001	<0.001	-	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				0	0	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH01	11 Aug 2025	Water	ES2524646	<0.0010	<0.0010	<0.0005	<0.0010	<0.02	<0.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.05	<0.1	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005
	13 Aug 2025	Water	ES2524646	-	-	-	-	<0.02	-	-	-	-	-	-	<0.02	-	-	-	-	<0.005	<0.005	<0.005	<0.005
RPD				-	-	-	-	0	-	-	-	-	-	-	0	-	-	-	-	0	0	0	0
Rinsate 1	11 Aug 2025	Water	ES2524646	<0.0010	<0.0010	<0.0005	<0.0010	<0.02	<0.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.05	<0.1	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005
	15 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rinsate 1	11 Aug 2025	Water	ES2524646	<0.0010	<0.0010	<0.0005	<0.0010	<0.02	<0.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.05	<0.1	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005
	13 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12 Aug 2025	Water	1255551	-	-	-	-	**0.03**	-	-	-	-	-	-	<0.02	-	-	-	-	-	-	-	-
	12 Aug 2025	Water	1255551	-	-	-	-	<0.02	-	-	-	-	-	-	<0.02	-	-	-	-	-	-	-	-
RPD				-	-	-	-	**40**	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-
	13 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range ar
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any meth

Laboratory Duplicates

				Chlorinated Hydrocarbons																		
				1,1-dichloroethene	1,1-dichloropropene	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,1,2-trichloroethane	2,2-dichloropropane	Bromochloromethane	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	1,3-dichloropropane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dibromomethane
				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**	**0.005**	**0.001**	**0.005**	**0.001**	**0.001**	**0.001**	**0.005**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.005**	**0.001**	**0.005**	**0.005**	**0.001**	**0.001**	**0.001**
Field ID	Date	Matrix Type	Lab Report Number																				
	31 Jul 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	31 Jul 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	05 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	05 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Water	1255551	<0.001	-	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.005	**0.005**	<0.001	<0.001
	11 Aug 2025	Water	1255551	<0.001	-	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.005	**0.005**	<0.001	<0.001
RPD				0	-	0	-	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0
	11 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH01	11 Aug 2025	Water	ES2524646	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005
	13 Aug 2025	Water	ES2524646	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	**0.005**	<0.05	<0.005	<0.005	<0.005
RPD				0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0
Rinsate 1	11 Aug 2025	Water	ES2524646	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005
	15 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rinsate 1	11 Aug 2025	Water	ES2524646	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005
	13 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range ar
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any meth

Laboratory Duplicates

									Semivolatile Organic Compounds														
				Dichloromethane	Hexachlorobutadiene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl chloride	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,2,4-Trichlorobenzene	1,2,3-Trichlorobenzene	Acetone	1,4-Dichloro-2-Butene [cis]	1,4-Dichloro-2-Butene [trans]	2-Butanone (MEK)	1,2-Dibromoethane	4-Chlorotoluene	4-Methyl-2-pentanone (MIBK)	2-Chlorotoluene
				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				**0.005**	**0.005**	**0.001**	**0.001**	**0.001**	**0.001**	**0.005**	**0.001**	**0.001**	**0.001**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.001**	**0.001**	**0.005**	**0.005**
Field ID	Date	Matrix Type	Lab Report Number																				
	31 Jul 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	31 Jul 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	05 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	05 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Water	1255551	<0.005	-	**0.050**	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	-	-	<0.005	-	-	<0.005	<0.001	<0.001	<0.005	-
	11 Aug 2025	Water	1255551	<0.005	-	**0.053**	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	-	-	<0.005	-	-	<0.005	<0.001	<0.001	<0.005	-
RPD				0	-	6	0	0	0	0	0	0	0	-	-	0	-	-	0	0	0	0	-
	11 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH01	11 Aug 2025	Water	ES2524646	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005
	13 Aug 2025	Water	ES2524646	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005
RPD				-	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0
Rinsate 1	11 Aug 2025	Water	ES2524646	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005
	15 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rinsate 1	11 Aug 2025	Water	ES2524646	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005
	13 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range ar
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any meth

Laboratory Duplicates

				Volatile Organic Compounds												
				2-Hexanone (MBK)	Bromobenzene	Bromomethane	Carbon disulfide	Chlorobenzene	Dichlorodifluoromethane	Formaldehyde	Allyl chloride	Iodomethane	Pentachloroethane	Trichlorofluoromethane	Vinyl acetate
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL				**0.05**	**0.001**	**0.005**	**0.001**	**0.001**	**0.005**	**0.1**	**0.001**	**0.001**	**0.005**	**0.005**	**0.05**
Field ID	Date	Matrix Type	Lab Report Number												
	31 Jul 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-
	31 Jul 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-
	05 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
	15 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-
	05 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
	15 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-
	07 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-
	07 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
	14 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Water	1255551	-	<0.001	<0.005	<0.001	<0.001	<0.005	-	<0.001	<0.001	-	<0.005	-
	11 Aug 2025	Water	1255551	-	<0.001	<0.005	<0.001	<0.001	<0.005	-	<0.001	<0.001	-	<0.005	-
RPD				-	0	0	0	0	0	-	0	0	-	0	-
	11 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
	15 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-
	11 Aug 2025	Water	ES2524646	-	-	-	-	-	-	<1.0	-	-	-	-	-
	13 Aug 2025	Water	ES2524646	-	-	-	-	-	-	<1.0	-	-	-	-	-
RPD				-	-	-	-	-	-	0	-	-	-	-	-
	11 Aug 2025	Water	ES2524646	-	-	-	-	-	-	**0.8**	-	-	-	-	-
	13 Aug 2025	Water	ES2524646	-	-	-	-	-	-	**0.8**	-	-	-	-	-
RPD				-	-	-	-	-	-	0	-	-	-	-	-
BH01	11 Aug 2025	Water	ES2524646	<0.05	<0.005	<0.05	<0.005	<0.005	<0.05	**5.3**	-	<0.005	<0.005	<0.05	<0.05
	13 Aug 2025	Water	ES2524646	<0.05	<0.005	<0.05	<0.005	<0.005	<0.05	-	-	<0.005	<0.005	<0.05	<0.05
RPD				0	0	0	0	0	0	-	-	0	0	0	0
Rinsate 1	11 Aug 2025	Water	ES2524646	<0.05	<0.005	<0.05	<0.005	<0.005	<0.05	<0.1	-	<0.005	<0.005	<0.05	<0.05
	15 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-
Rinsate 1	11 Aug 2025	Water	ES2524646	<0.05	<0.005	<0.05	<0.005	<0.005	<0.05	<0.1	-	<0.005	<0.005	<0.05	<0.05
	13 Aug 2025	Water	ES2524646	-	-	-	-	-	-	<0.1	-	-	-	-	-
RPD				-	-	-	-	-	-	0	-	-	-	-	-
	12 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-
	12 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Water	1255551	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-
	13 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
	15 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range ar
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any meth

Field Blanks

					BTEX								Total Recoverable Hydrocarbons		Total Petroleum Hydrocarbons
					Naphthalene (VOC)	Benzene	Ethylbenzene	Toluene	Xylenes Total	Xylene (o)	Xylenes (m & p)	Total BTEX	F1 (C6-C10)	F1 (C6-C10) less BTEX	C6 - C9
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					**1**	**0.2**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.2**	**10**	**10**	**10**
Sample Type	Field ID	Date	Matrix Type	Lab Report Number											
Trip_B	Trip Blank	04 Aug 2025	Soil	ES2524646	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<10	<10	<10

Field Blanks

					Metals						
					Arsenic	Cadmium	Chromium	Copper	Mercury	Nickel	Silver
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL					**0.001**	**0.0001**	**0.001**	**0.001**	**0.0001**	**0.001**	**0.001**
Sample Type	Field ID	Date	Matrix Type	Lab Report Number							
Trip_B	Trip Blank	04 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-
Rinsate	Rinsate 1	11 Aug 2025	Water	ES2524646	<0.001	<0.0001	<0.001	<0.001	<0.0001	<0.001	<0.001

Field Blanks

								BTEX				
					Lead	Zinc	Naphthalene (VOC)	Benzene	Ethylbenzene	Toluene	Xylenes Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL					**0.001**	**0.005**	**0.005**	**0.001**	**0.002**	**0.002**	**0.002**
Sample Type	Field ID	Date	Matrix Type	Lab Report Number							
Trip_B	Trip Blank	04 Aug 2025	Water	ES2524646	-	-	<0.005	<0.001	<0.002	<0.002	<0.002
Rinsate	Rinsate 1	11 Aug 2025	Water	ES2524646	<0.001	<0.005	<0.005	<0.001	<0.002	<0.002	<0.002

Field Blanks

												Monocyclic
					Xylene (o)	Xylenes (m & p)	Total BTEX	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	n-Butylbenzene	iso-Propylbenzene (cumene)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL					**0.002**	**0.002**	**0.001**	**0.005**	**0.005**	**0.005**	**0.005**
Sample Type	Field ID	Date	Matrix Type	Lab Report Number							
Trip_B	Trip Blank	04 Aug 2025	Water	ES2524646	<0.002	<0.002	<0.001	-	-	-	-
Rinsate	Rinsate 1	11 Aug 2025	Water	ES2524646	<0.002	<0.002	<0.001	<0.005	<0.005	<0.005	<0.005

Field Blanks

					Aromatic Hydrocarbons						
					n-Propylbenzene	sec-Butylbenzene	tert-Butylbenzene	Styrene	p-Isopropyltoluene	Benzo(a)pyrene TEQ calc (Zero)	Anthracene
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL					**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.0005**	**0.001**
Sample Type	Field ID	Date	Matrix Type	Lab Report Number							
Trip_B	Trip Blank	04 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-
Rinsate	Rinsate 1	11 Aug 2025	Water	ES2524646	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.0010

Field Blanks

					Polycyclic Aroma						
					Pyrene	Benzo(g,h,i)perylene	Indeno(1,2,3-c,d)pyrene	Benzo(b+j)fluoranthene	Fluoranthene	Benzo(k)fluoranthene	Acenaphthylene
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL					**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**
Sample Type	Field ID	Date	Matrix Type	Lab Report Number							
Trip_B	Trip Blank	04 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-
Rinsate	Rinsate 1	11 Aug 2025	Water	ES2524646	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010

Field Blanks

					tic Hydrocarbons						
					Chrysene	Benzo(a) pyrene	Dibenz(a,h)anthracene	Benz(a)anthracene	Acenaphthene	Phenanthrene	Fluorene
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL					**0.001**	**0.0005**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**
Sample Type	Field ID	Date	Matrix Type	Lab Report Number							
Trip_B	Trip Blank	04 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-
Rinsate	Rinsate 1	11 Aug 2025	Water	ES2524646	<0.0010	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010

Field Blanks

								Total Recoverable Hydrocarbons				
					PAHs (Sum of total)	Naphthalene	F1 (C6-C10)	F1 (C6-C10) less BTEX	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	C34-C40
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL					**0.0005**	**0.001**	**0.02**	**0.02**	**0.1**	**0.1**	**0.1**
Sample Type	Field ID	Date	Matrix Type	Lab Report Number							
Trip_B	Trip Blank	04 Aug 2025	Water	ES2524646	-	-	<0.02	<0.02	-	-	-
Rinsate	Rinsate 1	11 Aug 2025	Water	ES2524646	<0.0005	<0.0010	<0.02	<0.02	<0.1	<0.1	<0.1

Field Blanks

								Total Petroleum Hydrocarbons				
					C10 - C40 (Sum of total)	F2 C10-C16 (minus Naphthalene)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL					**0.1**	**0.1**	**0.02**	**0.05**	**0.1**	**0.05**	**0.05**
Sample Type	Field ID	Date	Matrix Type	Lab Report Number							
Trip_B	Trip Blank	04 Aug 2025	Water	ES2524646	-	-	<0.02	-	-	-	-
Rinsate	Rinsate 1	11 Aug 2025	Water	ES2524646	<0.1	<0.1	<0.02	<0.05	<0.1	<0.05	<0.05

Field Blanks

					1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1-dichloroethane	1,1-dichloroethene	1,1-dichloropropene	1,2,3-trichloropropane
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL					**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**
Sample Type	Field ID	Date	Matrix Type	Lab Report Number							
Trip_B	Trip Blank	04 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-
Rinsate	Rinsate 1	11 Aug 2025	Water	ES2524646	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Field Blanks

					Chlorii						
					1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,1,2-trichloroethane	2,2-dichloropropane	Bromodichloromethane	Bromoform
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL					**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**
Sample Type	Field ID	Date	Matrix Type	Lab Report Number							
Trip_B	Trip Blank	04 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-
Rinsate	Rinsate 1	11 Aug 2025	Water	ES2524646	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Field Blanks

					nated Hydrocarbons						
					Carbon tetrachloride	Chlorodibromomethane	Chloroethane	1,3-dichloropropane	Chloroform	Chloromethane	cis-1,2-dichloroethene
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL					**0.005**	**0.005**	**0.05**	**0.005**	**0.005**	**0.05**	**0.005**
Sample Type	Field ID	Date	Matrix Type	Lab Report Number							
Trip_B	Trip Blank	04 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-
Rinsate	Rinsate 1	11 Aug 2025	Water	ES2524646	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005

Field Blanks

					cis-1,3-dichloropropene	Dibromomethane	Hexachlorobutadiene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL					**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**
Sample Type	Field ID	Date	Matrix Type	Lab Report Number							
Trip_B	Trip Blank	04 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-
Rinsate	Rinsate 1	11 Aug 2025	Water	ES2524646	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Field Blanks

						Semivolatile Organic Compounds					
					Vinyl chloride	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,2,4-Trichlorobenzene	1,2,3-Trichlorobenzene	1,4-Dichloro-2-Butene [cis]
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL					**0.05**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**
Sample Type	Field ID	Date	Matrix Type	Lab Report Number							
Trip_B	Trip Blank	04 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-
Rinsate	Rinsate 1	11 Aug 2025	Water	ES2524646	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Field Blanks

					Volatile						
					1,4-Dichloro-2-Butene [trans]	2-Butanone (MEK)	1,2-Dibromoethane	4-Chlorotoluene	4-Methyl-2-pentanone (MIBK)	2-Chlorotoluene	2-Hexanone (MBK)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL					**0.005**	**0.05**	**0.005**	**0.005**	**0.05**	**0.005**	**0.05**
Sample Type	Field ID	Date	Matrix Type	Lab Report Number							
Trip_B	Trip Blank	04 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-
Rinsate	Rinsate 1	11 Aug 2025	Water	ES2524646	<0.005	<0.05	<0.005	<0.005	<0.05	<0.005	<0.05

Field Blanks

					Organic Compounds						
					Bromobenzene	Bromomethane	Carbon disulfide	Chlorobenzene	Dichlorodifluoromethane	Formaldehyde	Iodomethane
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL					**0.005**	**0.05**	**0.005**	**0.005**	**0.05**	**0.1**	**0.005**
Sample Type	Field ID	Date	Matrix Type	Lab Report Number							
Trip_B	Trip Blank	04 Aug 2025	Water	ES2524646	-	-	-	-	-	-	-
Rinsate	Rinsate 1	11 Aug 2025	Water	ES2524646	<0.005	<0.05	<0.005	<0.005	<0.05	<0.1	<0.005

Field Blanks

					Pentachloroethane	Trichlorofluoromethane	Vinyl acetate
					mg/L	mg/L	mg/L
EQL					**0.005**	**0.05**	**0.05**
Sample Type	Field ID	Date	Matrix Type	Lab Report Number			
Trip_B	Trip Blank	04 Aug 2025	Water	ES2524646	-	-	-
Rinsate	Rinsate 1	11 Aug 2025	Water	ES2524646	<0.005	<0.05	<0.05

APPENDIX H: LABORATORY TEST REPORTS

QUALITY CONTROL REPORT

Work Order	: **ES2524646**	Page	: 1 of 19
Client	: **TETRA TECH COFFEY PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: Ben Everingham	Contact	: Sandy Phan
Address	: LEVEL 19, TOWER B- CITADEL TOWER 799 PACIFIC HIGHWAY CHATSWOOD NSW, AUSTRALIA 2067	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: ----	Telephone	: +61-2-8784 8555
Project	: SYDGE351816	Date Samples Received	: 12-Aug-2025
Order number	: ----	Date Analysis Commenced	: 13-Aug-2025
C-O-C number	: ----	Issue Date	: 19-Aug-2025
Sampler	: Elliot Wood		
Site	:		
Quote number	: EN/000		
No. of samples received	: 45		
No. of samples analysed	: 32		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Ivan Taylor	Analyst	Sydney Inorganics, Smithfield, NSW
John Williams	Lab Technician	Newcastle - Asbestos, Mayfield West, NSW
Sanjeshni Jyoti	Senior Chemist Volatiles	Sydney Organics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
= Indicates failed QC
* = The final LOR has been raised due to dilution or other sample specific cause; adjusted LOR is shown in brackets. The duplicate ranges for Acceptable RPD% are applied to the final LOR where applicable.

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 6786330)									
ES2524366-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	26	20	26.0	0% - 50%
		EG005T: Nickel	7440-02-0	2	mg/kg	5	5	0.0	No Limit
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	12	10	19.5	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	98	80	19.1	0% - 50%
		EG005T: Lead	7439-92-1	5	mg/kg	128	135	5.5	0% - 20%
		EG005T: Zinc	7440-66-6	5	mg/kg	196	199	1.8	0% - 20%
ES2524646-015	BH102_0-0.1	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	7	6	19.1	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	52	53	2.7	0% - 20%
		EG005T: Silver	7440-22-4	2	mg/kg	5	4	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	93	98	5.0	0% - 50%
		EG005T: Lead	7439-92-1	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	29	31	8.5	No Limit
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 6786332)									
ES2524646-025	BH107_0.2-0.3	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	7	8	18.7	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	4	4	0.0	No Limit
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 6786332) - continued									
ES2524646-025	BH107_0.2-0.3	EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	10	8	20.4	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	130	139	6.8	0% - 20%
		EG005T: Zinc	7440-66-6	5	mg/kg	91	105	14.1	0% - 20%
ES2524779-015	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	8	7	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	11	10	0.0	No Limit
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	7	<5	29.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	7	9	22.3	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	6	<5	20.7	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	23	23	0.0	No Limit
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 6785319)									
ES2524646-008	DUP2	EA055: Moisture Content	----	0.1 (1.0)*	%	10.3	10.4	1.2	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 6786340)									
ES2524366-001	Anonymous	EA055: Moisture Content	----	0.1 (1.0)*	%	31.9	26.2	19.3	0% - 20%
ES2524646-014	BH104_0.3-0.4	EA055: Moisture Content	----	0.1 (1.0)*	%	14.9	10.1	38.6	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 6786341)									
ES2524646-027	BH108_0.1-0.2	EA055: Moisture Content	----	0.1 (1.0)*	%	9.6	9.9	3.1	No Limit
ES2524779-018	Anonymous	EA055: Moisture Content	----	0.1 (1.0)*	%	8.9	8.6	3.1	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 6786331)									
ES2524366-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	2.0	1.8	6.1	0% - 50%
ES2524646-015	BH102_0-0.1	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 6786333)									
ES2524646-025	BH107_0.2-0.3	EG035T: Mercury	7439-97-6	0.1	mg/kg	0.5	0.7	43.0	No Limit
ES2524779-015	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP010: Formaldehyde (QC Lot: 6786337)									
ES2524646-008	DUP2	EP010: Formaldehyde	50-00-0	2 (1)*	mg/kg	<1	<1	0.0	No Limit
ES2524646-020	BH104_0.8-0.9	EP010: Formaldehyde	50-00-0	2 (1)*	mg/kg	<1	<1	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 6783112)									
ES2524646-008	DUP2	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	1.2	1.2	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 6783112) - continued									
ES2524646-008	DUP2	EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	1.2	0.7	52.1	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	0.6	0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	1.0	1.0	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	0.8	0.8	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	0.6	0.7	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	5.4	4.9	9.7	0% - 50%
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	1.0	1.0	0.0	No Limit
ES2524646-021	BH105_0.2-0.3	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 6783113)									
ES2524646-008	DUP2	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2524646-021	BH105_0.2-0.3	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 6783113) - continued									
ES2524646-021	BH105_0.2-0.3	EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 6783443)									
ES2524646-008	DUP2	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
ES2524646-019	BH104_0.2-0.3	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 6783455)									
ES2524655-001	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 6783113)									
ES2524646-008	DUP2	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2524646-021	BH105_0.2-0.3	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 6783443)									
ES2524646-008	DUP2	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
ES2524646-019	BH104_0.2-0.3	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 6783455)									
ES2524655-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP080: BTEXN (QC Lot: 6783443)									
ES2524646-008	DUP2	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
ES2524646-019	BH104_0.2-0.3	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP080: BTEXN (QC Lot: 6783455)									
ES2524655-001	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP080: BTEXN (QC Lot: 6783455) - continued									
ES2524655-001	Anonymous	EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG020T: Total Metals by ICP-MS (QC Lot: 6789632)									
EN2513504-001	Anonymous	EG020B-T: Silver	7440-22-4	0.001	mg/L	<0.001	<0.001	0.0	No Limit
ME2501169-001	Anonymous	EG020B-T: Silver	7440-22-4	0.001	mg/L	<0.001	<0.001	0.0	No Limit
EG020T: Total Metals by ICP-MS (QC Lot: 6789633)									
ES2524487-001	Anonymous	EG020A-T: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-T: Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Copper	7440-50-8	0.001	mg/L	0.004	0.004	0.0	No Limit
		EG020A-T: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	0.0	No Limit
ME2501169-001	Anonymous	EG020A-T: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-T: Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Nickel	7440-02-0	0.001	mg/L	0.018	0.020	9.1	0% - 50%
		EG020A-T: Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	0.0	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 6789640)									
ES2524489-001	Anonymous	EG035T: Mercury	7439-97-6	0.0001	mg/L	<0.1 µg/L	<0.0001	0.0	No Limit
ES2524646-005	Rinsate 1	EG035T: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
EP010: Formaldehyde (QC Lot: 6784812)									
ES2524564-001	Anonymous	EP010: Formaldehyde	50-00-0	0.1 (1.0)*	mg/L	<1.0	<1.0	0.0	No Limit
ES2524564-010	Anonymous	EP010: Formaldehyde	50-00-0	0.1	mg/L	0.8	0.8	0.0	No Limit
EP010: Formaldehyde (QC Lot: 6784813)									
ES2524646-005	Rinsate 1	EP010: Formaldehyde	50-00-0	0.1	mg/L	<0.1	<0.1	0.0	No Limit
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 6783835)									
ES2524646-001	BH01	EP074: Styrene	100-42-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: Isopropylbenzene	98-82-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: n-Propylbenzene	103-65-1	5	µg/L	<5	<5	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 6783835) - continued									
ES2524646-001	BH01	EP074: 1.3.5-Trimethylbenzene	108-67-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: sec-Butylbenzene	135-98-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: tert-Butylbenzene	98-06-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: p-Isopropyltoluene	99-87-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: n-Butylbenzene	104-51-8	5	µg/L	<5	<5	0.0	No Limit
EP074B: Oxygenated Compounds (QC Lot: 6783835)									
ES2524646-001	BH01	EP074: Vinyl Acetate	108-05-4	50	µg/L	<50	<50	0.0	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	50	µg/L	<50	<50	0.0	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	50	µg/L	<50	<50	0.0	No Limit
EP074C: Sulfonated Compounds (QC Lot: 6783835)									
ES2524646-001	BH01	EP074: Carbon disulfide	75-15-0	5	µg/L	<5	<5	0.0	No Limit
EP074D: Fumigants (QC Lot: 6783835)									
ES2524646-001	BH01	EP074: 2.2-Dichloropropane	594-20-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.3-Dichloropropylene	10061-02-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	5	µg/L	<5	<5	0.0	No Limit
EP074E: Halogenated Aliphatic Compounds (QC Lot: 6783835)									
ES2524646-001	BH01	EP074: 1.1-Dichloroethene	75-35-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Iodomethane	74-88-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.2-Dichloroethene	156-59-2	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: Carbon Tetrachloride	56-23-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	5	µg/L	<5	<5	0.0	No Limit
		EP074: Trichloroethene	79-01-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dibromomethane	74-95-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	5	µg/L	<5	<5	0.0	No Limit
		EP074: Tetrachloroethene	127-18-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	5	µg/L	<5	<5	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074E: Halogenated Aliphatic Compounds (QC Lot: 6783835) - continued									
ES2524646-001	BH01	EP074: 1.1.2.2-Tetrachloroethane	79-34-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: Hexachlorobutadiene	87-68-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	50	µg/L	<50	<50	0.0	No Limit
		EP074: Chloromethane	74-87-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	50	µg/L	<50	<50	0.0	No Limit
		EP074: Bromomethane	74-83-9	50	µg/L	<50	<50	0.0	No Limit
		EP074: Chloroethane	75-00-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	50	µg/L	<50	<50	0.0	No Limit
EP074F: Halogenated Aromatic Compounds (QC Lot: 6783835)									
ES2524646-001	BH01	EP074: Chlorobenzene	108-90-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 2-Chlorotoluene	95-49-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: 4-Chlorotoluene	106-43-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3-Dichlorobenzene	541-73-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.4-Dichlorobenzene	106-46-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichlorobenzene	95-50-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.4-Trichlorobenzene	120-82-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	5	µg/L	<5	<5	0.0	No Limit
EP074G: Trihalomethanes (QC Lot: 6783835)									
ES2524646-001	BH01	EP074: Chloroform	67-66-3	5	µg/L	<5	5	0.0	No Limit
		EP074: Bromodichloromethane	75-27-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromoform	75-25-2	5	µg/L	<5	<5	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 6783836)									
ES2524646-001	BH01	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 6784343)									
ES2524690-001	Anonymous	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit
ES2524690-008	Anonymous	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 6783836)									
ES2524646-001	BH01	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 6784343)									
ES2524690-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
ES2524690-008	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
EP080: BTEXN (QC Lot: 6783836)									

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP080: BTEXN (QC Lot: 6783836) - continued									
ES2524646-001	BH01	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	5	6	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit
EP080: BTEXN (QC Lot: 6784343)									
ES2524690-001	Anonymous	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit
ES2524690-008	Anonymous	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit

Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 6786330)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	121.1 mg/kg	93.0	88.0	113
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	0.74 mg/kg	85.5	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	19.6 mg/kg	105	68.0	132
EG005T: Copper	7440-50-8	5	mg/kg	<5	52.9 mg/kg	96.1	89.0	111
EG005T: Lead	7439-92-1	5	mg/kg	<5	60.8 mg/kg	94.5	82.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.3 mg/kg	91.4	80.0	120
EG005T: Silver	7440-22-4	2	mg/kg	<2	2.3 mg/kg	128	42.0	158
EG005T: Zinc	7440-66-6	5	mg/kg	<5	139.3 mg/kg	84.7	66.0	133
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 6786332)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	121.1 mg/kg	94.7	88.0	113
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	0.74 mg/kg	80.5	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	19.6 mg/kg	107	68.0	132
EG005T: Copper	7440-50-8	5	mg/kg	<5	52.9 mg/kg	98.7	89.0	111
EG005T: Lead	7439-92-1	5	mg/kg	<5	60.8 mg/kg	94.9	82.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.3 mg/kg	93.4	80.0	120
EG005T: Silver	7440-22-4	2	mg/kg	<2	2.3 mg/kg	109	42.0	158
EG005T: Zinc	7440-66-6	5	mg/kg	<5	139.3 mg/kg	86.7	66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 6786331)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.087 mg/kg	86.8	70.0	125
EG035T: Total Recoverable Mercury by FIMS (QCLot: 6786333)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.087 mg/kg	92.0	70.0	125
EP010: Formaldehyde (QCLot: 6786337)								
EP010: Formaldehyde	50-00-0	2	mg/kg	<2	25 mg/kg	101	74.0	116
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 6783112)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	6 mg/kg	83.2	77.0	125
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	6 mg/kg	79.7	72.0	124
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	6 mg/kg	95.1	73.0	127
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	6 mg/kg	97.2	72.0	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	6 mg/kg	99.5	75.0	127
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	6 mg/kg	103	77.0	127

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
					Spike	Spike Recovery (%)	Acceptable Limits (%)
				Result	Concentration	LCS	Low	High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 6783112) - continued								
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	6 mg/kg	88.6	73.0	127
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	6 mg/kg	101	74.0	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	6 mg/kg	78.6	69.0	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	6 mg/kg	81.7	75.0	127
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	6 mg/kg	94.3	68.0	116
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	6 mg/kg	92.6	74.0	126
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	6 mg/kg	89.7	70.0	126
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	6 mg/kg	102	61.0	121
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	6 mg/kg	95.3	62.0	118
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	6 mg/kg	102	63.0	121
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6783113)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	300 mg/kg	102	75.0	129
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	450 mg/kg	100	77.0	131
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	300 mg/kg	102	71.0	129
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6783443)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	118	72.2	131
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6783455)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	96.3	72.2	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6783113)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	375 mg/kg	102	77.0	125
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	525 mg/kg	99.6	74.0	138
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	225 mg/kg	106	63.0	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6783443)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	106	72.4	133
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6783455)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	98.4	72.4	133
EP080: BTEXN (QCLot: 6783443)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	99.0	76.0	124
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	94.1	78.5	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	95.2	77.4	121
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	104	78.2	121
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	106	81.3	121
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	94.8	78.8	122

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP080: BTEXN (QCLot: 6783455)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	85.9	76.0	124
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	102	78.5	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	81.1	77.4	121
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	92.1	78.2	121
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	84.6	81.3	121
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	80.9	78.8	122

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG020T: Total Metals by ICP-MS (QCLot: 6789632)								
EG020B-T: Silver	7440-22-4	0.001	mg/L	<0.001	0.02 mg/L	91.2	70.0	130
EG020T: Total Metals by ICP-MS (QCLot: 6789633)								
EG020A-T: Arsenic	7440-38-2	0.001	mg/L	<0.001	0.1 mg/L	94.4	82.0	114
EG020A-T: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	0.1 mg/L	91.7	84.0	112
EG020A-T: Chromium	7440-47-3	0.001	mg/L	<0.001	0.1 mg/L	98.9	86.0	116
EG020A-T: Copper	7440-50-8	0.001	mg/L	<0.001	0.1 mg/L	92.7	83.0	118
EG020A-T: Lead	7439-92-1	0.001	mg/L	<0.001	0.1 mg/L	92.8	85.0	115
EG020A-T: Nickel	7440-02-0	0.001	mg/L	<0.001	0.1 mg/L	92.4	84.0	116
EG020A-T: Zinc	7440-66-6	0.005	mg/L	<0.005	0.1 mg/L	95.1	79.0	117
EG035T: Total Recoverable Mercury by FIMS (QCLot: 6789640)								
EG035T: Mercury	7439-97-6	0.0001	mg/L	<0.0001	0.01 mg/L	94.0	77.0	111
EP010: Formaldehyde (QCLot: 6784812)								
EP010: Formaldehyde	50-00-0	0.1	mg/L	<0.1	5 mg/L	100	83.0	111
EP010: Formaldehyde (QCLot: 6784813)								
EP010: Formaldehyde	50-00-0	0.1	mg/L	<0.1	5 mg/L	97.4	83.0	111
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 6783835)								
EP074: Styrene	100-42-5	5	µg/L	<5	10 µg/L	99.7	73.0	119
EP074: Isopropylbenzene	98-82-8	5	µg/L	<5	10 µg/L	99.9	76.0	118
EP074: n-Propylbenzene	103-65-1	5	µg/L	<5	10 µg/L	100	69.0	119
EP074: 1.3.5-Trimethylbenzene	108-67-8	5	µg/L	<5	10 µg/L	101	74.0	116
EP074: sec-Butylbenzene	135-98-8	5	µg/L	<5	10 µg/L	101	73.0	119
EP074: 1.2.4-Trimethylbenzene	95-63-6	5	µg/L	<5	10 µg/L	101	74.0	116
EP074: tert-Butylbenzene	98-06-6	5	µg/L	<5	10 µg/L	101	72.0	116

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 6783835) - continued								
EP074: p-Isopropyltoluene	99-87-6	5	µg/L	<5	10 µg/L	101	71.0	119
EP074: n-Butylbenzene	104-51-8	5	µg/L	<5	10 µg/L	101	65.0	123
EP074B: Oxygenated Compounds (QCLot: 6783835)								
EP074: Vinyl Acetate	108-05-4	50	µg/L	<50	100 µg/L	101	61.4	134
EP074: 2-Butanone (MEK)	78-93-3	50	µg/L	<50	100 µg/L	93.4	73.6	130
EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	50	µg/L	<50	100 µg/L	100	66.0	132
EP074: 2-Hexanone (MBK)	591-78-6	50	µg/L	<50	100 µg/L	93.7	65.0	137
EP074C: Sulfonated Compounds (QCLot: 6783835)								
EP074: Carbon disulfide	75-15-0	5	µg/L	<5	10 µg/L	94.1	72.8	127
EP074D: Fumigants (QCLot: 6783835)								
EP074: 2.2-Dichloropropane	594-20-7	5	µg/L	<5	10 µg/L	101	68.0	122
EP074: 1.2-Dichloropropane	78-87-5	5	µg/L	<5	10 µg/L	104	76.0	118
EP074: cis-1.3-Dichloropropylene	10061-01-5	5	µg/L	<5	10 µg/L	101	62.0	120
EP074: trans-1.3-Dichloropropylene	10061-02-6	5	µg/L	<5	10 µg/L	100	60.0	114
EP074: 1.2-Dibromoethane (EDB)	106-93-4	5	µg/L	<5	10 µg/L	100	69.0	117
EP074E: Halogenated Aliphatic Compounds (QCLot: 6783835)								
EP074: Dichlorodifluoromethane	75-71-8	50	µg/L	<50	100 µg/L	95.5	60.6	138
EP074: Chloromethane	74-87-3	50	µg/L	<50	100 µg/L	99.8	67.4	130
EP074: Vinyl chloride	75-01-4	50	µg/L	<50	100 µg/L	91.4	69.4	129
EP074: Bromomethane	74-83-9	50	µg/L	<50	100 µg/L	100	56.0	140
EP074: Chloroethane	75-00-3	50	µg/L	<50	100 µg/L	98.4	61.0	139
EP074: Trichlorofluoromethane	75-69-4	50	µg/L	<50	100 µg/L	97.9	69.0	131
EP074: 1.1-Dichloroethene	75-35-4	5	µg/L	<5	10 µg/L	100	70.0	124
EP074: Iodomethane	74-88-4	5	µg/L	<5	10 µg/L	92.1	70.2	128
EP074: trans-1.2-Dichloroethene	156-60-5	5	µg/L	<5	10 µg/L	98.8	74.0	118
EP074: 1.1-Dichloroethane	75-34-3	5	µg/L	<5	10 µg/L	99.2	74.0	120
EP074: cis-1.2-Dichloroethene	156-59-2	5	µg/L	<5	10 µg/L	103	77.0	119
EP074: 1.1.1-Trichloroethane	71-55-6	5	µg/L	<5	10 µg/L	101	67.0	119
EP074: 1.1-Dichloropropylene	563-58-6	5	µg/L	<5	10 µg/L	102	73.0	119
EP074: Carbon Tetrachloride	56-23-5	5	µg/L	<5	10 µg/L	98.9	62.0	120
EP074: 1.2-Dichloroethane	107-06-2	5	µg/L	<5	10 µg/L	104	73.0	123
EP074: Trichloroethene	79-01-6	5	µg/L	<5	10 µg/L	101	76.0	118
EP074: Dibromomethane	74-95-3	5	µg/L	<5	10 µg/L	102	73.0	119
EP074: 1.1.2-Trichloroethane	79-00-5	5	µg/L	<5	10 µg/L	101	72.0	126

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP074E: Halogenated Aliphatic Compounds (QCLot: 6783835) - continued								
EP074: 1.3-Dichloropropane	142-28-9	5	µg/L	<5	10 µg/L	102	71.0	129
EP074: Tetrachloroethene	127-18-4	5	µg/L	<5	10 µg/L	101	72.0	124
EP074: 1.1.1.2-Tetrachloroethane	630-20-6	5	µg/L	<5	10 µg/L	100	66.0	114
EP074: trans-1.4-Dichloro-2-butene	110-57-6	5	µg/L	<5	10 µg/L	98.6	60.0	120
EP074: cis-1.4-Dichloro-2-butene	1476-11-5	5	µg/L	<5	10 µg/L	99.6	70.6	128
EP074: 1.1.2.2-Tetrachloroethane	79-34-5	5	µg/L	<5	10 µg/L	101	70.0	124
EP074: 1.2.3-Trichloropropane	96-18-4	5	µg/L	<5	10 µg/L	97.2	74.0	126
EP074: Pentachloroethane	76-01-7	5	µg/L	<5	10 µg/L	98.0	71.8	126
EP074: 1.2-Dibromo-3-chloropropane	96-12-8	5	µg/L	<5	10 µg/L	98.5	66.4	136
EP074: Hexachlorobutadiene	87-68-3	5	µg/L	<5	10 µg/L	102	58.0	130
EP074F: Halogenated Aromatic Compounds (QCLot: 6783835)								
EP074: Chlorobenzene	108-90-7	5	µg/L	<5	10 µg/L	101	79.0	117
EP074: Bromobenzene	108-86-1	5	µg/L	<5	10 µg/L	101	76.0	116
EP074: 2-Chlorotoluene	95-49-8	5	µg/L	<5	10 µg/L	102	73.0	119
EP074: 4-Chlorotoluene	106-43-4	5	µg/L	<5	10 µg/L	102	73.0	119
EP074: 1.3-Dichlorobenzene	541-73-1	5	µg/L	<5	10 µg/L	101	75.0	117
EP074: 1.4-Dichlorobenzene	106-46-7	5	µg/L	<5	10 µg/L	102	74.0	118
EP074: 1.2-Dichlorobenzene	95-50-1	5	µg/L	<5	10 µg/L	102	75.0	117
EP074: 1.2.4-Trichlorobenzene	120-82-1	5	µg/L	<5	10 µg/L	102	61.0	125
EP074: 1.2.3-Trichlorobenzene	87-61-6	5	µg/L	<5	10 µg/L	105	67.0	123
EP074G: Trihalomethanes (QCLot: 6783835)								
EP074: Chloroform	67-66-3	5	µg/L	<5	10 µg/L	103	72.0	120
EP074: Bromodichloromethane	75-27-4	5	µg/L	<5	10 µg/L	100	64.0	118
EP074: Dibromochloromethane	124-48-1	5	µg/L	<5	10 µg/L	97.0	65.0	115
EP074: Bromoform	75-25-2	5	µg/L	<5	10 µg/L	96.8	73.5	126
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 6783132)								
EP075(SIM): Naphthalene	91-20-3	1	µg/L	<1.0	5 µg/L	70.8	50.0	94.0
EP075(SIM): Acenaphthylene	208-96-8	1	µg/L	<1.0	5 µg/L	91.0	63.6	114
EP075(SIM): Acenaphthene	83-32-9	1	µg/L	<1.0	5 µg/L	91.5	62.2	113
EP075(SIM): Fluorene	86-73-7	1	µg/L	<1.0	5 µg/L	94.9	63.9	115
EP075(SIM): Phenanthrene	85-01-8	1	µg/L	<1.0	5 µg/L	80.9	62.6	116
EP075(SIM): Anthracene	120-12-7	1	µg/L	<1.0	5 µg/L	86.2	64.3	116
EP075(SIM): Fluoranthene	206-44-0	1	µg/L	<1.0	5 µg/L	68.3	63.6	118
EP075(SIM): Pyrene	129-00-0	1	µg/L	<1.0	5 µg/L	70.4	63.1	118

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 6783132) - continued								
EP075(SIM): Benz(a)anthracene	56-55-3	1	µg/L	<1.0	5 µg/L	74.0	64.1	117
EP075(SIM): Chrysene	218-01-9	1	µg/L	<1.0	5 µg/L	77.0	62.5	116
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	1	µg/L	<1.0	5 µg/L	70.2	61.7	119
EP075(SIM): Benzo(k)fluoranthene	207-08-9	1	µg/L	<1.0	5 µg/L	86.7	63.0	115
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	5 µg/L	71.4	63.3	117
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	1	µg/L	<1.0	5 µg/L	64.8	59.9	118
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	1	µg/L	<1.0	5 µg/L	68.9	61.2	117
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	1	µg/L	<1.0	5 µg/L	72.3	59.1	118
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6783133)								
EP071: C10 - C14 Fraction	----	50	µg/L	<50	400 µg/L	54.4	53.7	97.0
EP071: C15 - C28 Fraction	----	100	µg/L	<100	600 µg/L	87.0	63.3	107
EP071: C29 - C36 Fraction	----	50	µg/L	<50	400 µg/L	84.6	58.3	120
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6783836)								
EP080: C6 - C9 Fraction	----	20	µg/L	<20	260 µg/L	84.7	75.0	127
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6784343)								
EP080: C6 - C9 Fraction	----	20	µg/L	<20	260 µg/L	81.1	75.0	127
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6783133)								
EP071: >C10 - C16 Fraction	----	100	µg/L	<100	500 µg/L	55.0	53.9	95.5
EP071: >C16 - C34 Fraction	----	100	µg/L	<100	700 µg/L	66.3	57.8	110
EP071: >C34 - C40 Fraction	----	100	µg/L	<100	300 µg/L	89.2	50.5	115
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6783836)								
EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	310 µg/L	85.3	75.0	127
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6784343)								
EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	310 µg/L	77.9	75.0	127
EP080: BTEXN (QCLot: 6783836)								
EP080: Benzene	71-43-2	1	µg/L	<1	10 µg/L	107	68.3	119
EP080: Toluene	108-88-3	2	µg/L	<2	10 µg/L	98.2	73.5	120
EP080: Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	95.8	73.8	122
EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	10 µg/L	94.0	73.0	122
EP080: ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	96.2	76.4	123
EP080: Naphthalene	91-20-3	5	µg/L	<5	10 µg/L	98.6	75.5	124
EP080: BTEXN (QCLot: 6784343)								
EP080: Benzene	71-43-2	1	µg/L	<1	10 µg/L	79.8	68.3	119

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP080: BTEXN (QCLot: 6784343) - continued								
EP080: Toluene	108-88-3	2	µg/L	<2	10 µg/L	81.2	73.5	120
EP080: Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	83.1	73.8	122
EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	10 µg/L	86.8	73.0	122
EP080: ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	89.1	76.4	123
EP080: Naphthalene	91-20-3	5	µg/L	<5	10 µg/L	84.7	75.5	124

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 6786330)							
ES2524366-001	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	92.2	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	90.0	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	81.9	68.0	132
		EG005T: Copper	7440-50-8	250 mg/kg	88.7	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	83.8	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	88.6	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	80.2	66.0	133
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 6786332)							
ES2524646-025	BH107_0.2-0.3	EG005T: Arsenic	7440-38-2	50 mg/kg	95.4	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	93.2	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	97.4	68.0	132
		EG005T: Copper	7440-50-8	250 mg/kg	99.6	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	103	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	96.2	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	93.4	66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 6786331)							
ES2524366-001	Anonymous	EG035T: Mercury	7439-97-6	5 mg/kg	79.9	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 6786333)							
ES2524646-025	BH107_0.2-0.3	EG035T: Mercury	7439-97-6	5 mg/kg	88.9	70.0	130
EP010: Formaldehyde (QCLot: 6786337)							
ES2524646-008	DUP2	EP010: Formaldehyde	50-00-0	12.5 mg/kg	90.8	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 6783112)							

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	Matrix Spike (MS) Report: SpikeRecovery(%) MS	Acceptable Limits (%) Low	Acceptable Limits (%) High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 6783112) - continued							
ES2524646-008	DUP2	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	88.9	70.0	130
		EP075(SIM): Pyrene	129-00-0	10 mg/kg	92.2	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6783113)							
ES2524646-008	DUP2	EP071: C10 - C14 Fraction	----	480 mg/kg	130	73.0	137
		EP071: C15 - C28 Fraction	----	3100 mg/kg	112	53.0	131
		EP071: C29 - C36 Fraction	----	2060 mg/kg	114	52.0	132
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6783443)							
ES2524646-008	DUP2	EP080: C6 - C9 Fraction	----	32.5 mg/kg	103	60.4	142
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6783455)							
ES2524655-001	Anonymous	EP080: C6 - C9 Fraction	----	32.5 mg/kg	65.6	60.4	142
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6783113)							
ES2524646-008	DUP2	EP071: >C10 - C16 Fraction	----	860 mg/kg	110	73.0	137
		EP071: >C16 - C34 Fraction	----	4320 mg/kg	115	53.0	131
		EP071: >C34 - C40 Fraction	----	890 mg/kg	118	52.0	132
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6783443)							
ES2524646-008	DUP2	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	100	61.1	142
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6783455)							
ES2524655-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	64.5	61.1	142
EP080: BTEXN (QCLot: 6783443)							
ES2524646-008	DUP2	EP080: Benzene	71-43-2	2.5 mg/kg	88.8	62.1	122
		EP080: Toluene	108-88-3	2.5 mg/kg	85.2	66.6	119
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	90.4	67.4	123
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	97.2	66.4	121
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	98.2	70.7	121
		EP080: Naphthalene	91-20-3	2.5 mg/kg	87.1	61.1	115
EP080: BTEXN (QCLot: 6783455)							
ES2524655-001	Anonymous	EP080: Benzene	71-43-2	2.5 mg/kg	78.3	62.1	122
		EP080: Toluene	108-88-3	2.5 mg/kg	89.1	66.6	119
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	77.0	67.4	123
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	74.2	66.4	121
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	83.9	70.7	121
		EP080: Naphthalene	91-20-3	2.5 mg/kg	77.4	61.1	115

Sub-Matrix: **WATER**

Matrix Spike (MS) Report: Spike	Matrix Spike (MS) Report: SpikeRecovery(%)	Acceptable Limits (%)

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG020T: Total Metals by ICP-MS (QCLot: 6789633)							
ES2524487-002	Anonymous	EG020A-T: Arsenic	7440-38-2	1 mg/L	99.1	70.0	130
		EG020A-T: Cadmium	7440-43-9	0.25 mg/L	97.8	70.0	130
		EG020A-T: Chromium	7440-47-3	1 mg/L	103	70.0	130
		EG020A-T: Copper	7440-50-8	1 mg/L	101	70.0	130
		EG020A-T: Lead	7439-92-1	1 mg/L	97.1	70.0	130
		EG020A-T: Nickel	7440-02-0	1 mg/L	101	70.0	130
		EG020A-T: Zinc	7440-66-6	1 mg/L	102	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 6789640)							
ES2524489-001	Anonymous	EG035T: Mercury	7439-97-6	0.01 mg/L	85.2	70.0	130
EP010: Formaldehyde (QCLot: 6784812)							
ES2524564-001	Anonymous	EP010: Formaldehyde	50-00-0	2.5 mg/L	91.6	70.0	130
EP010: Formaldehyde (QCLot: 6784813)							
ES2524646-005	Rinsate 1	EP010: Formaldehyde	50-00-0	2.5 mg/L	102	70.0	130
EP074E: Halogenated Aliphatic Compounds (QCLot: 6783835)							
ES2524646-001	BH01	EP074: 1.1-Dichloroethene	75-35-4	25 µg/L	98.1	70.0	130
		EP074: Trichloroethene	79-01-6	25 µg/L	104	70.0	130
EP074F: Halogenated Aromatic Compounds (QCLot: 6783835)							
ES2524646-001	BH01	EP074: Chlorobenzene	108-90-7	25 µg/L	107	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6783836)							
ES2524646-001	BH01	EP080: C6 - C9 Fraction	----	325 µg/L	88.1	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6784343)							
ES2524690-001	Anonymous	EP080: C6 - C9 Fraction	----	325 µg/L	97.5	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6783836)							
ES2524646-001	BH01	EP080: C6 - C10 Fraction	C6_C10	375 µg/L	87.3	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6784343)							
ES2524690-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	375 µg/L	94.2	70.0	130
EP080: BTEXN (QCLot: 6783836)							
ES2524646-001	BH01	EP080: Benzene	71-43-2	25 µg/L	100	70.0	130
		EP080: Toluene	108-88-3	25 µg/L	93.9	70.0	130
		EP080: Ethylbenzene	100-41-4	25 µg/L	95.0	70.0	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	25 µg/L	94.7	70.0	130
		EP080: ortho-Xylene	95-47-6	25 µg/L	95.0	70.0	130
		EP080: Naphthalene	91-20-3	25 µg/L	99.8	70.0	130
EP080: BTEXN (QCLot: 6784343)							

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*Concentration*	*MS*	*Low*	*High*
EP080: BTEXN (QCLot: 6784343) - continued							
ES2524690-001	Anonymous	EP080: Benzene	71-43-2	25 µg/L	75.1	70.0	130
		EP080: Toluene	108-88-3	25 µg/L	84.2	70.0	130
		EP080: Ethylbenzene	100-41-4	25 µg/L	90.2	70.0	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	25 µg/L	93.3	70.0	130
		EP080: ortho-Xylene	95-47-6	25 µg/L	92.2	70.0	130
		EP080: Naphthalene	91-20-3	25 µg/L	84.8	70.0	130

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **ES2524646**	Page	: 1 of 11
Client	: **TETRA TECH COFFEY PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: Ben Everingham	Telephone	: +61-2-8784 8555
Project	: SYDGE351816	Date Samples Received	: 12-Aug-2025
Site	:	Issue Date	: 19-Aug-2025
Sampler	: Elliot Wood	No. of samples received	: 45
Order number	: ----	No. of samples analysed	: 32

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **For all regular sample matrices, where applicable to the methodology, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **Quality Control Sample Frequency Outliers exist - please see following pages for full details.**

Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type		Count		Rate (%)		Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	
Laboratory Duplicates (DUP)						
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	0	19	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	19	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)						
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	0	19	0.00	5.00	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	19	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / *Container* / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content (Dried @ 105-110°C)								
Soil Glass Jar - Unpreserved (EA055)								
DUP2,	BH104_0.2-0.3	**11-Aug-2025**	**----**	----	**----**	**13-Aug-2025**	25-Aug-2025	✓
Soil Glass Jar - Unpreserved (EA055)								
BH106_0.2-0.3,	BH101_0.9-1.0,	**11-Aug-2025**	**----**	----	**----**	**14-Aug-2025**	25-Aug-2025	✓
BH104_0.3-0.4,	BH102_0-0.1,							
BH102_0.4-0.5,	BH103-0.5-0.6,							
BH103_0.7-0.8,	BH104_0.8-0.9,							
BH105_0.2-0.3,	BH105-1.1-1.2,							
BH106_0.5-0.6,	BH107_0-0.1,							
BH107_0.2-0.3,	BH108_0.5-0.6,							
BH108_0.1-0.2,	BH109_0-0.1,							
BH109_0.3-0.4								

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Snap Lock Bag - ACM/Asbestos Grab Bag (EA200)								
BH106_0.2-0.3,	BH104_0.3-0.4,	**11-Aug-2025**	**----**	----	----	**14-Aug-2025**	07-Feb-2026	✓
BH102_0-0.1,	BH102_0.4-0.5,							
BH103-0.5-0.6,	BH103_0.7-0.8,							
BH104_0.2-0.3,	BH105_0.2-0.3,							
BH106_0.5-0.6,	BH107_0-0.1,							
BH107_0.2-0.3,	BH108_0.5-0.6,							
BH108_0.1-0.2,	BH109_0-0.1,							
BH109_0.3-0.4,	BH101_0-0.1,							
BH103_0.1-0.2,	BH104_0.6-0.7							
EG005(ED093)T: Total Metals by ICP-AES								
Soil Glass Jar - Unpreserved (EG005T)								
DUP2,	BH106_0.2-0.3,	**11-Aug-2025**	**14-Aug-2025**	07-Feb-2026	✓	**15-Aug-2025**	07-Feb-2026	✓
BH101_0.9-1.0,	BH104_0.3-0.4,							
BH102_0-0.1,	BH102_0.4-0.5,							
BH103-0.5-0.6,	BH103_0.7-0.8,							
BH104_0.2-0.3,	BH104_0.8-0.9,							
BH105_0.2-0.3,	BH105-1.1-1.2,							
BH106_0.5-0.6,	BH107_0-0.1,							
BH107_0.2-0.3,	BH108_0.5-0.6,							
BH108_0.1-0.2,	BH109_0-0.1,							
BH109_0.3-0.4								
EG035T: Total Recoverable Mercury by FIMS								
Soil Glass Jar - Unpreserved (EG035T)								
DUP2,	BH106_0.2-0.3,	**11-Aug-2025**	**14-Aug-2025**	08-Sep-2025	✓	**18-Aug-2025**	08-Sep-2025	✓
BH101_0.9-1.0,	BH104_0.3-0.4,							
BH102_0-0.1,	BH102_0.4-0.5,							
BH103-0.5-0.6,	BH103_0.7-0.8,							
BH104_0.2-0.3,	BH104_0.8-0.9,							
BH105_0.2-0.3,	BH105-1.1-1.2,							
BH106_0.5-0.6,	BH107_0-0.1,							
BH107_0.2-0.3,	BH108_0.5-0.6,							
BH108_0.1-0.2,	BH109_0-0.1,							
BH109_0.3-0.4								

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP010: Formaldehyde							
Soil Glass Jar - Unpreserved (EP010)							
DUP2, BH101_0.9-1.0, BH102_0-0.1, BH103-0.5-0.6, BH104_0.2-0.3, BH105_0.2-0.3, BH106_0.5-0.6, BH107_0.2-0.3, BH108_0.1-0.2, BH109_0.3-0.4, BH106_0.2-0.3, BH104_0.3-0.4, BH102_0.4-0.5, BH103_0.7-0.8, BH104_0.8-0.9, BH105-1.1-1.2, BH107_0-0.1, BH108_0.5-0.6, BH109_0-0.1,	**11-Aug-2025**	**14-Aug-2025**	07-Feb-2026	✓	**18-Aug-2025**	07-Feb-2026	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP075(SIM))							
BH106_0.2-0.3, BH101_0.9-1.0	**11-Aug-2025**	**13-Aug-2025**	25-Aug-2025	✓	**15-Aug-2025**	22-Sep-2025	✓
Soil Glass Jar - Unpreserved (EP075(SIM))							
DUP2, BH102_0-0.1, BH103-0.5-0.6, BH104_0.2-0.3, BH105_0.2-0.3, BH106_0.5-0.6, BH107_0.2-0.3, BH108_0.1-0.2, BH109_0.3-0.4, BH104_0.3-0.4, BH102_0.4-0.5, BH103_0.7-0.8, BH104_0.8-0.9, BH105-1.1-1.2, BH107_0-0.1, BH108_0.5-0.6, BH109_0-0.1,	**11-Aug-2025**	**13-Aug-2025**	25-Aug-2025	✓	**16-Aug-2025**	22-Sep-2025	✓
EP080/071: Total Petroleum Hydrocarbons							
Soil Glass Jar - Unpreserved (EP080)							
Trip Blank	**04-Aug-2025**	**13-Aug-2025**	18-Aug-2025	✓	**15-Aug-2025**	18-Aug-2025	✓
Soil Glass Jar - Unpreserved (EP080)							
DUP2, BH101_0.9-1.0, BH102_0-0.1, BH103-0.5-0.6, BH104_0.2-0.3, BH105_0.2-0.3, BH106_0.2-0.3, BH104_0.3-0.4, BH102_0.4-0.5, BH103_0.7-0.8, BH104_0.8-0.9, BH109_0.3-0.4,	**11-Aug-2025**	**13-Aug-2025**	25-Aug-2025	✓	**15-Aug-2025**	25-Aug-2025	✓
Soil Glass Jar - Unpreserved (EP071)							
BH103_0.7-0.8, BH104_0.8-0.9, BH105-1.1-1.2, BH107_0-0.1, BH108_0.5-0.6, BH109_0-0.1, BH104_0.2-0.3, BH105_0.2-0.3, BH106_0.5-0.6, BH107_0.2-0.3, BH108_0.1-0.2, BH109_0.3-0.4	**11-Aug-2025**	**13-Aug-2025**	25-Aug-2025	✓	**16-Aug-2025**	22-Sep-2025	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Soil Glass Jar - Unpreserved (EP080)							
Trip Blank	**04-Aug-2025**	**13-Aug-2025**	18-Aug-2025	✓	**15-Aug-2025**	18-Aug-2025	✓
Soil Glass Jar - Unpreserved (EP080)							
DUP2, BH101_0.9-1.0, BH102_0-0.1, BH103-0.5-0.6, BH104_0.2-0.3, BH105_0.2-0.3, BH106_0.2-0.3, BH104_0.3-0.4, BH102_0.4-0.5, BH103_0.7-0.8, BH104_0.8-0.9, BH109_0.3-0.4	**11-Aug-2025**	**13-Aug-2025**	25-Aug-2025	✓	**15-Aug-2025**	25-Aug-2025	✓
Soil Glass Jar - Unpreserved (EP071)							
BH103_0.7-0.8, BH104_0.8-0.9, BH105-1.1-1.2, BH107_0-0.1, BH108_0.5-0.6, BH109_0-0.1, BH104_0.2-0.3, BH105_0.2-0.3, BH106_0.5-0.6, BH107_0.2-0.3, BH108_0.1-0.2, BH109_0.3-0.4	**11-Aug-2025**	**13-Aug-2025**	25-Aug-2025	✓	**16-Aug-2025**	22-Sep-2025	✓
EP080: BTEXN							
Soil Glass Jar - Unpreserved (EP080)							
Trip Blank	**04-Aug-2025**	**13-Aug-2025**	18-Aug-2025	✓	**15-Aug-2025**	18-Aug-2025	✓
Soil Glass Jar - Unpreserved (EP080)							
Trip Spike -23, TSC-23	**04-Aug-2025**	**13-Aug-2025**	18-Aug-2025	✓	**16-Aug-2025**	18-Aug-2025	✓
Soil Glass Jar - Unpreserved (EP080)							
DUP2, BH101_0.9-1.0, BH102_0-0.1, BH103-0.5-0.6, BH104_0.2-0.3, BH105_0.2-0.3, BH106_0.2-0.3, BH104_0.3-0.4, BH102_0.4-0.5, BH103_0.7-0.8, BH104_0.8-0.9, BH109_0.3-0.4	**11-Aug-2025**	**13-Aug-2025**	25-Aug-2025	✓	**15-Aug-2025**	25-Aug-2025	✓
Soil Glass Jar - Unpreserved (EP080)							
BH105-1.1-1.2, BH107_0-0.1, BH108_0.5-0.6, BH109_0-0.1, BH106_0.5-0.6, BH107_0.2-0.3, BH108_0.1-0.2,	**11-Aug-2025**	**13-Aug-2025**	25-Aug-2025	✓	**16-Aug-2025**	25-Aug-2025	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EG020T: Total Metals by ICP-MS							
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG020B-T)							
BH01, BH02, BH03, DUP1, Rinsate 1	**11-Aug-2025**	**15-Aug-2025**	07-Feb-2026	✓	**15-Aug-2025**	07-Feb-2026	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EG035T: Total Recoverable Mercury by FIMS							
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG035T)							
BH01, BH02, BH03, DUP1, Rinsate 1	**11-Aug-2025**	**----**	----	----	**18-Aug-2025**	08-Sep-2025	✓
EP010: Formaldehyde							
Clear Plastic Bottle - Natural (EP010)							
BH01, BH02, BH03, DUP1, Rinsate 1	**11-Aug-2025**	**----**	----	----	**13-Aug-2025**	13-Aug-2025	✓
EP074A: Monocyclic Aromatic Hydrocarbons							
Amber VOC Vial - Sulfuric Acid (EP074)							
BH01, BH02, BH03, DUP1, Rinsate 1	**11-Aug-2025**	**13-Aug-2025**	25-Aug-2025	✓	**14-Aug-2025**	25-Aug-2025	✓
EP074B: Oxygenated Compounds							
Amber VOC Vial - Sulfuric Acid (EP074)							
BH01, BH02, BH03, DUP1, Rinsate 1	**11-Aug-2025**	**13-Aug-2025**	25-Aug-2025	✓	**14-Aug-2025**	25-Aug-2025	✓
EP074C: Sulfonated Compounds							
Amber VOC Vial - Sulfuric Acid (EP074)							
BH01, BH02, BH03, DUP1, Rinsate 1	**11-Aug-2025**	**13-Aug-2025**	25-Aug-2025	✓	**14-Aug-2025**	25-Aug-2025	✓
EP074D: Fumigants							
Amber VOC Vial - Sulfuric Acid (EP074)							
BH01, BH02, BH03, DUP1, Rinsate 1	**11-Aug-2025**	**13-Aug-2025**	25-Aug-2025	✓	**14-Aug-2025**	25-Aug-2025	✓
EP074E: Halogenated Aliphatic Compounds							
Amber VOC Vial - Sulfuric Acid (EP074)							
BH01, BH02, BH03, DUP1, Rinsate 1	**11-Aug-2025**	**13-Aug-2025**	25-Aug-2025	✓	**14-Aug-2025**	25-Aug-2025	✓
EP074F: Halogenated Aromatic Compounds							
Amber VOC Vial - Sulfuric Acid (EP074)							
BH01, BH02, BH03, DUP1, Rinsate 1	**11-Aug-2025**	**13-Aug-2025**	25-Aug-2025	✓	**14-Aug-2025**	25-Aug-2025	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP074G: Trihalomethanes							
Amber VOC Vial - Sulfuric Acid (EP074)							
BH01, BH02, BH03, DUP1, Rinsate 1	**11-Aug-2025**	**13-Aug-2025**	25-Aug-2025	✓	**14-Aug-2025**	25-Aug-2025	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP075(SIM))							
BH01, BH02, BH03, DUP1, Rinsate 1	**11-Aug-2025**	**14-Aug-2025**	18-Aug-2025	✓	**15-Aug-2025**	23-Sep-2025	✓
EP080/071: Total Petroleum Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP071)							
BH01, BH02, BH03, DUP1, Rinsate 1	**11-Aug-2025**	**14-Aug-2025**	18-Aug-2025	✓	**18-Aug-2025**	23-Sep-2025	✓
Amber VOC Vial - Sulfuric Acid (EP080)							
Trip Blank, Trip Spike - 19	**04-Aug-2025**	**14-Aug-2025**	18-Aug-2025	✓	**14-Aug-2025**	18-Aug-2025	✓
Amber VOC Vial - Sulfuric Acid (EP080)							
BH01, BH02, BH03, DUP1, Rinsate 1	**11-Aug-2025**	**13-Aug-2025**	25-Aug-2025	✓	**14-Aug-2025**	25-Aug-2025	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Amber Glass Bottle - Unpreserved (EP071)							
BH01, BH02, BH03, DUP1, Rinsate 1	**11-Aug-2025**	**14-Aug-2025**	18-Aug-2025	✓	**18-Aug-2025**	23-Sep-2025	✓
Amber VOC Vial - Sulfuric Acid (EP080)							
Trip Blank, Trip Spike - 19	**04-Aug-2025**	**14-Aug-2025**	18-Aug-2025	✓	**14-Aug-2025**	18-Aug-2025	✓
Amber VOC Vial - Sulfuric Acid (EP080)							
BH01, BH02, BH03, DUP1, Rinsate 1	**11-Aug-2025**	**13-Aug-2025**	25-Aug-2025	✓	**14-Aug-2025**	25-Aug-2025	✓
EP080: BTEXN							
Amber VOC Vial - Sulfuric Acid (EP080)							
Trip Blank, Trip Spike - 19	**04-Aug-2025**	**14-Aug-2025**	18-Aug-2025	✓	**14-Aug-2025**	18-Aug-2025	✓
Amber VOC Vial - Sulfuric Acid (EP080)							
BH01, BH02, BH03, DUP1, Rinsate 1	**11-Aug-2025**	**13-Aug-2025**	25-Aug-2025	✓	**14-Aug-2025**	25-Aug-2025	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Formaldehyde	EP010	2	19	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Moisture Content	EA055	5	40	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	2	19	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	4	40	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	4	40	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	19	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	3	27	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Formaldehyde	EP010	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	40	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	40	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	27	**7.41**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Formaldehyde	EP010	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	40	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	40	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	27	**7.41**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Formaldehyde	EP010	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	40	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	40	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	27	**7.41**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Formaldehyde	EP010	3	21	**14.29**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	0	19	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP) - Continued							
Total Metals by ICP-MS - Suite A	EG020A-T	2	8	**25.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite B	EG020B-T	2	13	**15.38**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	19	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	3	28	**10.71**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	10	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Formaldehyde	EP010	2	21	**9.52**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	8	**12.50**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite B	EG020B-T	1	13	**7.69**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	28	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Formaldehyde	EP010	2	21	**9.52**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	8	**12.50**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite B	EG020B-T	1	13	**7.69**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	28	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Formaldehyde	EP010	2	21	**9.52**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	0	19	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	8	**12.50**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	19	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	28	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Asbestos Identification in Soils	EA200	SOIL	AS 4964 Method for the qualitative identification of asbestos in bulk samples Analysis by Polarised Light Microscopy including dispersion staining
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
Formaldehyde	EP010	SOIL	In house: Referenced to ASTM D 6303-98. Determined on 1:5 soil / water extracts by colourimetry using NASH reagent. The Hantszch reaction method is based on the reaction of acetylacetone with formaldehyde in the presence of excess ammonium acetate to form a coloured compound.
TRH - Semivolatile Fraction	EP071	SOIL	In house: Referenced to USEPA SW 846 - 8015 Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40. Compliant with NEPM Schedule B(3).
PAH/Phenols (SIM)	EP075(SIM)	SOIL	In house: Referenced to USEPA SW 846 - 8270. Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	SOIL	In house: Referenced to USEPA SW 846 - 8260. Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. Compliant with NEPM Schedule B(3) amended.
Total Metals by ICP-MS - Suite A	EG020A-T	WATER	In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.
Total Metals by ICP-MS - Suite B	EG020B-T	WATER	In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.
Total Mercury by FIMS	EG035T	WATER	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. A bromate/bromide reagent is used to oxidise any organic mercury compounds in the unfiltered sample. The ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3).

Analytical Methods	Method	Matrix	Method Descriptions
Formaldehyde	EP010	WATER	In house: Referenced to ASTM D 6303-98. s
TRH - Semivolatile Fraction	EP071	WATER	In house: Referenced to USEPA SW 846 - 8015 The sample extract is analysed by Capillary GC/FID and quantification is by comparison against an established 5 point calibration curve of n-Alkane standards. This method is compliant with the QC requirements of NEPM Schedule B(3)
Volatile Organic Compounds	EP074	WATER	In house: Referenced to USEPA SW 846 - 8260 Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	WATER	In house: Referenced to USEPA SW 846 - 8270 Sample extracts are analysed by Capillary GC/MS in SIM Mode and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	WATER	In house: Referenced to USEPA SW 846 - 8260 Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. Alternatively, a sample is equilibrated in a headspace vial and a portion of the headspace determined by GCMS analysis. This method is compliant with the QC requirements of NEPM Schedule B(3)

Preparation Methods	Method	Matrix	Method Descriptions
1:5 solid / water leach for soluble analytes	EN34	SOIL	10 g of soil is mixed with 50 mL of reagent grade water and tumbled end over end for 1 hour. Water soluble salts are leached from the soil by the continuous suspension. Samples are settled and the water filtered off for analysis.
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Methanolic Extraction of Soils for Purge and Trap	ORG16	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.
Digestion for Total Recoverable Metals	EN25	WATER	In house: Referenced to USEPA SW846-3005. Method 3005 is a Nitric/Hydrochloric acid digestion procedure used to prepare surface and ground water samples for analysis by ICPAES or ICPMS. This method is compliant with NEPM Schedule B(3)
Separatory Funnel Extraction of Liquids	ORG14	WATER	In house: Referenced to USEPA SW 846 - 3510 100 mL to 1L of sample is transferred to a separatory funnel and serially extracted three times using DCM for each extract. The resultant extracts are combined, dehydrated and concentrated for analysis. This method is compliant with NEPM Schedule B(3) . ALS default excludes sediment which may be resident in the container.
Volatiles Water Preparation	ORG16-W	WATER	A 5 mL aliquot or 5 mL of a diluted sample is added to a 40 mL VOC vial for purging.

UPDATED COC

HT

Table 1: Groundwater analysis

	Sample ID	Matrix	Sample date	TRH	PAH	BTEXN	VOC (including VOA and VHC)	TRH (C6-C10)	Heavy Metals (M8 plus silver)	Asbestos ID	Formaldehyde	Notes
1.	BH01	Water	11/8/2025	X	X	X	X		X		X	
2.	BH02	Water	11/8/2025	X	X	X	X		X		X	
3.	BH03	Water	11/8/2025	X	X	X	X		X		X	
4.	DUP1	Water	11/8/2025	X	X	X	X		X		X	
-	TRIP1	Water	11/8/2025	X	X	X	X		X		X	Please send to Eurofins for analysis
5.	Rinsate1	Water	11/8/2025	X	X	X	X		X		X	
6.	Trip Blank	Water	4/8/2025			X		X				
7.	Trip Spike -19	Water	4/8/2025			X		X				

Rec: 12/8/25 1518

Subcon / Forward Lab / Split WO:
Eurofins
Lab / Analysis: Eurofins | Trip1, Trip2, Trip3.
Relinquished Date:
WO:

Environmental Division
Sydney
Work Order Reference
ES2524646

Telephone : +61-2-8784 8555

Subcon / Forward Lab / Split WO:
Lab / Analysis: Newcastle | Asbestos
Relinquished Date:
WO:

Table 2: Soil analysis

	Sample ID	Matrix	Sample date	TRH	PAH	BTEXN	VOC (including VOA and VHC)	TRH (C6-C10)	Heavy Metals (MS plus silver)	Asbestos ID	Formaldehyde	Notes
8	DUP2	Soil	11.8.2025	X	X	X	X		X		X	
	TRIP2	Soil	11.8.2025	X	X	X	X		X		X	Please send to Eurofins for analysis
9.	Rinsate 2	Water	11.8.2025	X	X	X	X		X		X	
10.	Trip Spike ~23	Soil	11.8.2025			X		X				
11.	Trip Blank	Soil	11.8.2025			X		X				
12.	BH100_0.2-0.3	Soil	11.8.2025	X	X	X	X		X	X	X	
13	BH101_0.9-1.0	Soil	11.8.2025	X	X	X	X		X		X	
14	BH101_0.3-0.4	Soil	11.8.2025	X	X	X	X		X	X	X	
15	BH102_0-0.1	Soil	11.8.2025	X	X	X	X		X	X	X	
16	BH102_0.4-0.5	Soil	11.8.2025	X	X	X	X		X	X	X	
17	BH103_0.5-0.6	Soil	11.8.2025	X	X	X	X		X	X	X	
18	BH103_0.7-0.8	Soil	11.8.2025	X	X	X	X		X	X	X	
19	BH104_0.2-0.3	Soil	11.8.2025	X	X	X	X		X	X	X	
20	BH104_0.8-0.9	Soil	11.8.2025	X	X	X	X		X		X	
21	BH105_0.2-0.3	Soil	11.8.2025	X	X	X	X		X	X	X	
22	BH105_1.1-1.2	Soil	11.8.2025	X	X	X	X		X		X	
23	BH106_0.5-0.6	Soil	11.8.2025	X	X	X	X		X	X	X	
24	BH107_0-0.1	Soil	11.8.2025	X	X	X	X		X	X	X	
25	BH107_0.2-0.3	Soil	11.8.2025	X	X	X	X		X	X	X	
26	BH108_0.5-0.6	Soil	11.8.2025	X	X	X	X		X	X	X	
27	BH108_0.1-0.2	Soil	11.8.2025	X	X	X	X		X	X	X	
28	BH109_0-0.1	Soil	11.8.2025	X	X	X	X		X	X	X	
29	BH109_0.3-0.4	Soil	11.8.2025	X	X	X	X		X	X	X	
[redacted]	BH109_0-0.1	Soil	11.8.2025	X	X	X	X		X	X	X	
[redacted]	BH109_0.3-0.4	Soil	11.8.2025	X	X	X	X		X	X	X	
30	BH101_0-0.1	Soil	11.8.2025							X		
31	BH103_0.1-0.2	Soil	11.8.2025							X		
32	BH104_0.6-0.7	Soil	11.8.2025							X		

Rec 12.8.25
1518

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

TETRA TECH COFFEY

Consigning Office:	Chatswood				ben.eveningham@tetratech.com
Report Results to:	Ben Eveningham ~~Kelsie McGillen~~	Mobile:	~~0424 703 009~~	Email:	kelsie.mcgillen@tetratech.com
Invoices to:	~~Kelsie McGillen~~	Phone:	~~0424 703 009~~	Email:	

Project No:	~~SYDGE379468~~ SYDGE361816	Task No:	Labs
Project Name:	~~Lismore South Public School~~	Laboratory:	~~Eurofins~~ ALS
Sampler's Name:		Project Manager:	~~Kelsie McGillen~~ Ben Eveningham
Quote number (if different to current quoted prices):			
Special Instructions:	5 Day Turn Around Time		

Lab Batch Ref	Sample ID	Sample Date	Time	Matrix (Soil...etc)	Container Type & Preservative*	T-A-T (specify)	Suite B7 (Trh, BTEXN, PAH, Metal	Suite B15 (OCP, OPP, PCB)	Phenols (speciated)	Coal Tar in Asphalt	Chromium Reducible Sulfur	Asbestos Bulk ID	Asbestos ID in Soil (50g)	TCLP PAH	TCLP Metals	PFAS Short Suite	
	BH01	11/8/25		Water													
	BH02																
	BH03																
	DUP1																
	TRIP1																
	Rinsate 1																
	Rinsate 2			Soil	J												
	DUP2				J+2												
	TRIP2				J+2												Forward to Eurofins
45	DUP3				J												
- ~~46/13~~	TRIP3				J												Forward to Eurofins
	BH101_0-0.1				J+2												
	BH101_0.3-0.4				J+2												
	BH101_0.9-1.0				J+2												
	BH102_~~0.0~~0-0.1				J+2												
	BH102_0.4-0.5				J+2												

Please forward to Eurofins

RELINQUISHED BY		RECEIVED BY		Sample Receipt Advice: (Lab Use Only)	
Name:	Date:	Name: Butent	Date: 12/8/25	All Samples Recieved in Good Condition	☑
Coffey	Time:	Company: ALS CROWS NEST	Time: 11:25 am	All Documentation is in Proper Order	☑
Name:	Date: →	Name: Wes	Date: 12/8/25	Samples Received Properly Chilled	☑ -1.6°C
Company:	Time:	Company: AU	Time: 1436	Lab. Ref/Batch No.	0.3°C -1.1°C

3 HARD ESKIES

*Container Type & Preservation Codes: **P** - Plastic, **G**- Glass Bottle, **J** - Glass Jar, **V**- Vial, **Z** - Ziplock bag, **N** - Nitric Acid Preserved, **C** - Hydrochloric Acid Preserved, **S** - Sulphuric Acid Preserved, **I** - Ice, **ST** - Sodium Thiosulfate, **NP** - No Preservative

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

TETRA TECH COFFEY

Consigning Office:	Chatswood				
Report Results to:	~~Kelsie McGillen~~	Mobile:	~~0424 703 009~~	Email:	~~kelsie.mcgillen@tetratech.com~~
Invoices to:	~~Kelsie McGillen~~	Phone:	~~0424 703 009~~	Email:	

Project No:	~~SYDGE379468~~	Task No:	Labs
Project Name:	Lismore South Public School	Laboratory:	~~Eurofins~~
Sampler's Name:		Project Manager:	~~Kelsie McGillen~~
Quote number (if different to current quoted prices):			
Special Instructions:		5 Day Turn Around Time	

Lab Batch Ref	Sample ID	Sample Date	Time	Matrix (Soil...etc)	Container Type & Preservative*	T-A-T (specify)
	BH103_0.1-0.2	11/8/25		Soil	J+Z	
	BH103-0.5-0.6					
	BH103-0.7-0.8					
33	BH104-0-0.1					
	BH104-0.2-0.3					
	BH104-0.6-0.7					
	BH104-0.8-0.9					
34	BH105-0-0.1					
	BH105-0.2-0.3					
35	BH105-0.4-0.5					
	BH105-1.1-1.2					
36	BH106-0-0.1					
	BH106-0.2-0.3					
37	BH106-0.4-0.5					
38 ~~40~~	BH106-0.5-0.6					
	BH106-0.6-0.7					

Analysis Request Section

Suite B7 (Trh, BTEXN, PAH, Metal	Suite B15 (OCP, OPP, PCB)	Phenols (speciated)	Coal Tar in Asphalt	Chromium Reducible Sulfur	Asbestos Bulk ID	Asbestos ID in Soil (50g)	TCLP PAH	TCLP Metals	PFAS Short Suite				NOTES

RELINQUISHED BY		RECEIVED BY		Sample Receipt Advice: (Lab Use Only)	
Name:	Date:	Name: Brilent	Date: 12/8/25	All Samples Recieved in Good Condition	☐
Coffey	Time:	Company: ARS CROWS NEST	Time: 11:25 am	All Documentation is in Proper Order	☐
Name:	Date: →	Name: Wcas	Date: 12/8/25	Samples Received Properly Chilled	☐
Company:	Time:	Company: ARS	Time: 1436.	Lab. Ref/Batch No.	

***Container Type & Preservation Codes:** **P** - Plastic, **G**- Glass Bottle, **J** - Glass Jar, **V**- Vial, **Z** - Ziplock bag, **N** - Nitric Acid Preserved, **C** - Hydrochloric Acid Preserved, **S** - Sulphuric Acid Preserved, **I** - Ice, **ST** - Sodium Thiosulfate, **NP** - No Preservative

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

TETRA TECH COFFEY

Consigning Office:	Chatswood				
Report Results to:	~~Kelsie McGillen~~	Mobile:	~~0424 703 009~~	Email:	kelsie.mcgillen@tetratech.com
Invoices to:	~~Kelsie McGillen~~	Phone:	~~0424 703 009~~	Email:	

Project No:	~~SYDGE379468~~	Task No:	Labs
Project Name:	~~Lismore South Public School~~	Laboratory:	~~Eurofins~~
Sampler's Name:		Project Manager:	~~Kelsie McGillen~~
Quote number (if different to current quoted prices):			
Special Instructions:		5 Day Turn Around Time	

Lab Batch Ref	Sample ID	Sample Date	Time	Matrix (Soil...etc)	Container Type & Preservative*	T-A-T (specify)
39	BH106_1.2-1.3	11/8/25		Soil	J+Z	
	BH107_0-0.1					
	BH107_0.2-0.3					
40	BH108_0-0.1					
	BH108_0.1-0.2					
	BH108_0.5-0.6					
	BH109_0-0.1					
	BH109_0.3-0.4					
41	BH110_0-0.1					
42	BH110_0.3-0.4					
Extra 43	BH105_0.5.0.4					
44	TSC-23	4/8				

Analysis Request Section

Suite B7 (Trh, BTEXN, PAH, Meta	Suite B15 (OCP, OPP, PCB)	Phenols (speciated)	Coal Tar in Asphalt	Chromium Reducible Sulfur	Asbestos Bulk ID	Asbestos ID in Soil (50g)	TCLP PAH	TCLP Metals	PFAS Short Suite				NOTES

RELINQUISHED BY		RECEIVED BY		Sample Receipt Advice: (Lab Use Only)	
Name:	Date:	Name: Bulent	Date: 12/8/25	All Samples Recieved in Good Condition	☐
Coffey	Time:	Company: ALS CROWS NEST	Time: 11:25 am	All Documentation is in Proper Order	☐
Name:	Date: →	Name: Wang	Date: 12/8/25	Samples Received Properly Chilled	☐
Company:	Time:	Company: ALS	Time: 1436.	Lab. Ref/Batch No.	

***Container Type & Preservation Codes:** **P** - Plastic, **G**- Glass Bottle, **J** - Glass Jar, **V**- Vial, **Z** - Ziplock bag, **N** - Nitric Acid Preserved, **C** - Hydrochloric Acid Preserved, **S** - Sulphuric Acid Preserved, **I** - Ice, **ST** - Sodium Thiosulfate, **NP** - No Preservative

CERTIFICATE OF ANALYSIS

Work Order	: **ES2524646**	Page	: 1 of 26
Client	: **TETRA TECH COFFEY PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: Ben Everingham	Contact	: Sandy Phan
Address	: LEVEL 19, TOWER B- CITADEL TOWER 799 PACIFIC HIGHWAY CHATSWOOD NSW, AUSTRALIA 2067	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: ----	Telephone	: +61-2-8784 8555
Project	: SYDGE351816	Date Samples Received	: 12-Aug-2025 11:25
Order number	: ----	Date Analysis Commenced	: 13-Aug-2025
C-O-C number	: ----	Issue Date	: 19-Aug-2025 17:54
Sampler	: Elliot Wood		
Site	:		
Quote number	: EN/000		
No. of samples received	: 45		
No. of samples analysed	: 32		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Descriptive Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Ivan Taylor	Analyst	Sydney Inorganics, Smithfield, NSW
John Williams	Lab Technician	Newcastle - Asbestos, Mayfield West, NSW
Sanjeshni Jyoti	Senior Chemist Volatiles	Sydney Organics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- EP075 (SIM): Where reported, Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero.
- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP074: Where reported, Total Trihalomethanes is the sum of the reported concentrations of all Trihalomethanes at or above the LOR.
- EP074: Where reported, Total Trimethylbenzenes is the sum of the reported concentrations of 1.2.3-Trimethylbenzene, 1.2.4-Trimethylbenzene and 1.3.5-Trimethylbenzene at or above the LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.
- EP080: The trip spike and its control have been analysed for volatile TPH and BTEXN only. The trip spike and control were prepared in the lab using reagent grade sand spiked with petrol. The spike was dispatched from the lab and the control retained.
- EP080: Sample TRIP SPIKE contains volatile compounds spiked into the sample containers prior to dispatch from the laboratory. BTEXN compounds spiked at 20 ug/L.
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200 'Trace' - Asbestos fibres ("Free Fibres") detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- EA200 Legend
- EA200 'Ch' Chrysotile (white asbestos)
- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.
- EA200: For samples larger than 30g, the <2mm fraction may be sub-sampled prior to trace analysis as outlined in ISO23909:2008(E) Sect 6.3.2-2
- EA200: 'Yes' - Asbestos detected by polarised light microscopy including dispersion staining.
- EA200: 'No*' - No asbestos found, at the reporting limit of 0.1g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at concentrations estimated to be below 0.1g/kg.
- EA200: 'No' - No asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	DUP2	Trip Spike -23	Trip Blank	BH106_0.2-0.3	BH101_0.9-1.0
			Sampling date / time	11-Aug-2025 00:00	04-Aug-2025 00:00	04-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00
Compound	CAS Number	LOR	Unit	ES2524646-008	ES2524646-010	ES2524646-011	ES2524646-012	ES2524646-013
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	**10.3**	----	----	**9.8**	**7.5**
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	----	----	----	**No**	----
Asbestos (Trace)	1332-21-4	-	-	----	----	----	**No**	----
Asbestos Type	1332-21-4	-	--	----	----	----	**-**	----
Synthetic Mineral Fibre	----	-	--	----	----	----	**No**	----
Organic Fibre	----	-	--	----	----	----	**No**	----
Sample weight (dry)	----	0.01	g	----	----	----	**494**	----
APPROVED IDENTIFIER:	----	-	--	----	----	----	**J. WILLIAMS**	----
EG005(ED093)T: Total Metals by ICP-AES								
Silver	7440-22-4	2	mg/kg	<2	----	----	<2	<2
Arsenic	7440-38-2	5	mg/kg	**7**	----	----	**5**	<5
Cadmium	7440-43-9	1	mg/kg	<1	----	----	<1	<1
Chromium	7440-47-3	2	mg/kg	**19**	----	----	**11**	**5**
Copper	7440-50-8	5	mg/kg	**46**	----	----	**56**	<5
Lead	7439-92-1	5	mg/kg	**157**	----	----	**86**	**14**
Nickel	7440-02-0	2	mg/kg	**15**	----	----	**15**	<2
Zinc	7440-66-6	5	mg/kg	**2770**	----	----	**343**	**6**
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	**0.1**	----	----	**0.1**	<0.1
EP010: Formaldehyde								
Formaldehyde	50-00-0	1	mg/kg	<1	----	----	<1	<1
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	----	----	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	----	----	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	----	----	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	----	----	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	DUP2	Trip Spike -23	Trip Blank	BH106_0.2-0.3	BH101_0.9-1.0
				Sampling date / time	11-Aug-2025 00:00	04-Aug-2025 00:00	04-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00
Compound	CAS Number	LOR	Unit		ES2524646-008	ES2524646-010	ES2524646-011	ES2524646-012	ES2524646-013
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	----	----	**0.5**	<0.5
Anthracene	120-12-7	0.5	mg/kg		<0.5	----	----	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		**1.2**	----	----	**1.1**	<0.5
Pyrene	129-00-0	0.5	mg/kg		**1.2**	----	----	**1.1**	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		**0.6**	----	----	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg		<0.5	----	----	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		**1.0**	----	----	**0.7**	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		<0.5	----	----	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		**0.8**	----	----	**0.5**	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	----	----	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	----	----	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		**0.6**	----	----	<0.5	<0.5
^ **Sum of polycyclic aromatic hydrocarbons**	----	0.5	mg/kg		**5.4**	----	----	**3.9**	<0.5
^ **Benzo(a)pyrene TEQ (zero)**	----	0.5	mg/kg		**1.0**	----	----	**0.6**	<0.5
^ **Benzo(a)pyrene TEQ (half LOR)**	----	0.5	mg/kg		**1.3**	----	----	**0.9**	**0.6**
^ **Benzo(a)pyrene TEQ (LOR)**	----	0.5	mg/kg		**1.6**	----	----	**1.2**	**1.2**
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	----	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg		<50	----	----	<50	<50
C15 - C28 Fraction	----	100	mg/kg		<100	----	----	<100	<100
C29 - C36 Fraction	----	100	mg/kg		<100	----	----	<100	<100
^ **C10 - C36 Fraction (sum)**	----	50	mg/kg		<50	----	----	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	----	<10	<10	<10
^ **C6 - C10 Fraction minus BTEX (F1)**	C6_C10-BTEX	10	mg/kg		<10	----	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg		<50	----	----	<50	<50

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	DUP2	Trip Spike -23	Trip Blank	BH106_0.2-0.3	BH101_0.9-1.0
				Sampling date / time	11-Aug-2025 00:00	04-Aug-2025 00:00	04-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00
Compound	CAS Number	LOR	Unit		ES2524646-008	ES2524646-010	ES2524646-011	ES2524646-012	ES2524646-013
					Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
>C16 - C34 Fraction	----	100	mg/kg		<100	----	----	<100	<100
>C34 - C40 Fraction	----	100	mg/kg		<100	----	----	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	----	----	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	----	----	<50	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	7.1	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	8.7	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	9.2	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	3.8	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	28.8	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg		<0.5	13.0	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	<1	<1
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		84.6	----	----	93.2	97.5
2-Chlorophenol-D4	93951-73-6	0.5	%		88.1	----	----	96.8	104
2.4.6-Tribromophenol	118-79-6	0.5	%		64.0	----	----	81.1	75.5
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		117	----	----	115	113
Anthracene-d10	1719-06-8	0.5	%		96.2	----	----	105	107
4-Terphenyl-d14	1718-51-0	0.5	%		107	----	----	115	117
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		99.6	86.9	94.4	91.3	104
Toluene-D8	2037-26-5	0.2	%		71.7	97.5	90.4	79.7	93.5
4-Bromofluorobenzene	460-00-4	0.2	%		97.9	85.5	109	91.4	104

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BH104_0.3-0.4	BH102_0-0.1	BH102_0.4-0.5	BH103-0.5-0.6	BH103_0.7-0.8
				Sampling date / time	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00
Compound	CAS Number	LOR	Unit		ES2524646-014	ES2524646-015	ES2524646-016	ES2524646-017	ES2524646-018
					Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%		14.9	8.7	7.8	28.0	12.4
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg		No	No	No	No	No
Asbestos (Trace)	1332-21-4	-	-		No	No	No	No	No
Asbestos Type	1332-21-4	-	--		-	-	-	-	-
Synthetic Mineral Fibre	----	-	--		No	No	No	No	No
Organic Fibre	----	-	--		No	No	No	No	No
Sample weight (dry)	----	0.01	g		601	823	697	359	428
APPROVED IDENTIFIER:	----	-	--		J. WILLIAMS	J. WILLIAMS	J. WILLIAMS	J. WILLIAMS	J. WILLIAMS
EG005(ED093)T: Total Metals by ICP-AES									
Silver	7440-22-4	2	mg/kg		<2	5	<2	<2	<2
Arsenic	7440-38-2	5	mg/kg		7	<5	9	10	<5
Cadmium	7440-43-9	1	mg/kg		<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg		11	7	18	22	10
Copper	7440-50-8	5	mg/kg		6	93	41	1010	15
Lead	7439-92-1	5	mg/kg		46	<5	111	453	15
Nickel	7440-02-0	2	mg/kg		<2	52	12	36	5
Zinc	7440-66-6	5	mg/kg		43	29	112	568	28
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg		<0.1	<0.1	0.1	2.1	<0.1
EP010: Formaldehyde									
Formaldehyde	50-00-0	1	mg/kg		<1	<1	<1	<1	<1
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BH104_0.3-0.4	BH102_0-0.1	BH102_0.4-0.5	BH103-0.5-0.6	BH103_0.7-0.8
				Sampling date / time	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00
Compound	CAS Number	LOR	Unit		ES2524646-014	ES2524646-015	ES2524646-016	ES2524646-017	ES2524646-018
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	<0.5	**0.6**	**0.6**	<0.5
Anthracene	120-12-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		**0.7**	<0.5	**1.2**	**0.9**	<0.5
Pyrene	129-00-0	0.5	mg/kg		**0.6**	<0.5	**1.1**	**0.9**	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	<0.5	**0.5**	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		<0.5	<0.5	**0.7**	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		<0.5	<0.5	<0.5	**0.5**	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<0.5	<0.5	**0.5**	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		**1.3**	<0.5	**4.6**	**2.9**	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	<0.5	**0.6**	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**0.6**	**0.6**	**0.9**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg		<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg		<100	<100	<100	**150**	<100
C29 - C36 Fraction	----	100	mg/kg		<100	<100	<100	**110**	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg		<50	<50	<50	**260**	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	<50	<50	<50

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BH104_0.3-0.4	BH102_0-0.1	BH102_0.4-0.5	BH103-0.5-0.6	BH103_0.7-0.8
				Sampling date / time	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00
Compound	CAS Number	LOR	Unit		ES2524646-014	ES2524646-015	ES2524646-016	ES2524646-017	ES2524646-018
					Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
>C16 - C34 Fraction	----	100	mg/kg		<100	<100	<100	**220**	<100
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	<50	<50	**220**	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	<50	<50	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	<1	<1
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		**95.3**	**90.3**	**92.0**	**89.3**	**99.6**
2-Chlorophenol-D4	93951-73-6	0.5	%		**99.8**	**92.0**	**94.1**	**82.4**	**102**
2.4.6-Tribromophenol	118-79-6	0.5	%		**69.8**	**66.8**	**72.5**	**70.3**	**77.8**
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		**103**	**108**	**110**	**109**	**110**
Anthracene-d10	1719-06-8	0.5	%		**104**	**100**	**104**	**102**	**107**
4-Terphenyl-d14	1718-51-0	0.5	%		**116**	**113**	**116**	**114**	**118**
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		**93.5**	**92.0**	**91.4**	**77.8**	**86.6**
Toluene-D8	2037-26-5	0.2	%		**83.0**	**78.1**	**80.7**	**67.1**	**79.3**
4-Bromofluorobenzene	460-00-4	0.2	%		**104**	**88.5**	**91.8**	**82.5**	**91.4**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BH104_0.2-0.3	BH104_0.8-0.9	BH105_0.2-0.3	BH105-1.1-1.2	BH106_0.5-0.6
			Sampling date / time	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00
Compound	CAS Number	LOR	Unit	ES2524646-019	ES2524646-020	ES2524646-021	ES2524646-022	ES2524646-023
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	10.7	11.6	13.0	13.4	12.2
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	No	----	No	----	No
Asbestos (Trace)	1332-21-4	-	-	No	----	No	----	No
Asbestos Type	1332-21-4	-	--	-	----	-	----	-
Synthetic Mineral Fibre	----	-	--	No	----	No	----	No
Organic Fibre	----	-	--	No	----	No	----	No
Sample weight (dry)	----	0.01	g	466	----	581	----	708
APPROVED IDENTIFIER:	----	-	--	J. WILLIAMS	----	J. WILLIAMS	----	J. WILLIAMS
EG005(ED093)T: Total Metals by ICP-AES								
Silver	7440-22-4	2	mg/kg	<2	<2	<2	<2	<2
Arsenic	7440-38-2	5	mg/kg	<5	<5	16	<5	6
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	16	5	9	11	13
Copper	7440-50-8	5	mg/kg	32	<5	87	<5	12
Lead	7439-92-1	5	mg/kg	157	16	47	8	200
Nickel	7440-02-0	2	mg/kg	17	<2	21	<2	<2
Zinc	7440-66-6	5	mg/kg	239	13	194	<5	100
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	0.3	<0.1	<0.1	<0.1	0.3
EP010: Formaldehyde								
Formaldehyde	50-00-0	1	mg/kg	<1	<1	<1	<1	<1
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	0.7
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BH104_0.2-0.3	BH104_0.8-0.9	BH105_0.2-0.3	BH105-1.1-1.2	BH106_0.5-0.6
				Sampling date / time	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00
Compound	CAS Number	LOR	Unit		ES2524646-019	ES2524646-020	ES2524646-021	ES2524646-022	ES2524646-023
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Phenanthrene	85-01-8	0.5	mg/kg		**0.7**	<0.5	<0.5	<0.5	**0.8**
Anthracene	120-12-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		**1.7**	<0.5	<0.5	<0.5	**2.2**
Pyrene	129-00-0	0.5	mg/kg		**1.9**	<0.5	<0.5	<0.5	**2.0**
Benz(a)anthracene	56-55-3	0.5	mg/kg		**0.9**	<0.5	<0.5	<0.5	**1.2**
Chrysene	218-01-9	0.5	mg/kg		**0.6**	<0.5	<0.5	<0.5	**0.9**
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		**1.1**	<0.5	<0.5	<0.5	**1.9**
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	**0.7**
Benzo(a)pyrene	50-32-8	0.5	mg/kg		**0.9**	<0.5	<0.5	<0.5	**1.0**
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	**0.6**
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		**0.6**	<0.5	<0.5	<0.5	**0.8**
^ **Sum of polycyclic aromatic hydrocarbons**	----	0.5	mg/kg		**8.4**	<0.5	<0.5	<0.5	**12.8**
^ **Benzo(a)pyrene TEQ (zero)**	----	0.5	mg/kg		**1.1**	<0.5	<0.5	<0.5	**1.4**
^ **Benzo(a)pyrene TEQ (half LOR)**	----	0.5	mg/kg		**1.4**	**0.6**	**0.6**	**0.6**	**1.7**
^ **Benzo(a)pyrene TEQ (LOR)**	----	0.5	mg/kg		**1.7**	**1.2**	**1.2**	**1.2**	**2.0**
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg		<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
^ **C10 - C36 Fraction (sum)**	----	50	mg/kg		<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	<10	<10	<10
^ **C6 - C10 Fraction minus BTEX (F1)**	C6_C10-BTEX	10	mg/kg		<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	<50	<50	<50

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BH104_0.2-0.3	BH104_0.8-0.9	BH105_0.2-0.3	BH105-1.1-1.2	BH106_0.5-0.6
				Sampling date / time	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00
Compound	CAS Number	LOR	Unit		ES2524646-019	ES2524646-020	ES2524646-021	ES2524646-022	ES2524646-023
					Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
>C16 - C34 Fraction	-----	100	mg/kg		<100	<100	<100	<100	**110**
>C34 - C40 Fraction	-----	100	mg/kg		<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	-----	50	mg/kg		<50	<50	<50	<50	**110**
^ >C10 - C16 Fraction minus Naphthalene (F2)	-----	50	mg/kg		<50	<50	<50	<50	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	-----	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	-----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	<1	<1
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		**98.0**	**93.2**	**88.6**	**115**	**115**
2-Chlorophenol-D4	93951-73-6	0.5	%		**101**	**94.5**	**91.0**	**113**	**106**
2.4.6-Tribromophenol	118-79-6	0.5	%		**69.7**	**71.2**	**62.2**	**60.3**	**74.4**
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		**114**	**98.6**	**104**	**100**	**106**
Anthracene-d10	1719-06-8	0.5	%		**101**	**102**	**105**	**82.7**	**82.9**
4-Terphenyl-d14	1718-51-0	0.5	%		**114**	**115**	**118**	**102**	**87.4**
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		**85.9**	**88.2**	**89.6**	**84.6**	**93.5**
Toluene-D8	2037-26-5	0.2	%		**74.4**	**68.8**	**75.0**	**79.7**	**85.5**
4-Bromofluorobenzene	460-00-4	0.2	%		**94.5**	**82.7**	**93.6**	**102**	**105**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BH107_0-0.1	BH107_0.2-0.3	BH108_0.5-0.6	BH108_0.1-0.2	BH109_0-0.1
			Sampling date / time	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00
Compound	CAS Number	LOR	Unit	ES2524646-024	ES2524646-025	ES2524646-026	ES2524646-027	ES2524646-028
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	8.2	4.5	6.6	9.6	6.2
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	No	No	No	No	No
Asbestos (Trace)	1332-21-4	-	-	No	No	No	No	No
Asbestos Type	1332-21-4	-	--	-	-	-	-	-
Synthetic Mineral Fibre	----	-	--	No	No	No	No	No
Organic Fibre	----	-	--	No	No	No	No	No
Sample weight (dry)	----	0.01	g	526	490	676	456	490
APPROVED IDENTIFIER:	----	-	--	J. WILLIAMS	J. WILLIAMS	J. WILLIAMS	J. WILLIAMS	J. WILLIAMS
EG005(ED093)T: Total Metals by ICP-AES								
Silver	7440-22-4	2	mg/kg	<2	<2	<2	<2	<2
Arsenic	7440-38-2	5	mg/kg	<5	<5	6	<5	<5
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	38	7	13	12	115
Copper	7440-50-8	5	mg/kg	37	10	6	15	30
Lead	7439-92-1	5	mg/kg	134	130	38	112	49
Nickel	7440-02-0	2	mg/kg	36	4	3	5	101
Zinc	7440-66-6	5	mg/kg	102	91	32	75	64
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	0.1	0.5	0.1	0.1	0.1
EP010: Formaldehyde								
Formaldehyde	50-00-0	1	mg/kg	<1	<1	<1	<1	<1
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BH107_0-0.1	BH107_0.2-0.3	BH108_0.5-0.6	BH108_0.1-0.2	BH109_0-0.1
				Sampling date / time	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00
Compound	CAS Number	LOR	Unit		ES2524646-024	ES2524646-025	ES2524646-026	ES2524646-027	ES2524646-028
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		**1.2**	**0.7**	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg		**1.2**	**0.7**	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		**1.1**	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg		**0.9**	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		**1.9**	**0.8**	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		**0.6**	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		**0.8**	**0.5**	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		**0.6**	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		**0.8**	**0.5**	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		**9.1**	**3.2**	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		**1.2**	**0.6**	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**1.5**	**0.9**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.7**	**1.2**	**1.2**	**1.2**	**1.2**
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg		<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg		**100**	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg		**100**	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	<50	<50	<50

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BH107_0-0.1	BH107_0.2-0.3	BH108_0.5-0.6	BH108_0.1-0.2	BH109_0-0.1
				Sampling date / time	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00
Compound	CAS Number	LOR	Unit		ES2524646-024	ES2524646-025	ES2524646-026	ES2524646-027	ES2524646-028
					Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
>C16 - C34 Fraction	-----	100	mg/kg		**120**	<100	<100	<100	<100
>C34 - C40 Fraction	-----	100	mg/kg		**110**	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	-----	50	mg/kg		**230**	<50	<50	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	-----	50	mg/kg		<50	<50	<50	<50	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	-----	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	-----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	<1	<1
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		**98.4**	**87.5**	**91.6**	**88.9**	**115**
2-Chlorophenol-D4	93951-73-6	0.5	%		**90.1**	**82.8**	**83.8**	**82.1**	**98.1**
2.4.6-Tribromophenol	118-79-6	0.5	%		**65.4**	**66.0**	**55.1**	**50.6**	**49.0**
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		**111**	**114**	**113**	**107**	**85.0**
Anthracene-d10	1719-06-8	0.5	%		**83.5**	**97.0**	**96.8**	**85.8**	**80.9**
4-Terphenyl-d14	1718-51-0	0.5	%		**116**	**85.4**	**118**	**89.6**	**88.6**
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		**78.4**	**92.8**	**89.2**	**84.3**	**82.2**
Toluene-D8	2037-26-5	0.2	%		**66.8**	**71.9**	**85.1**	**80.3**	**80.9**
4-Bromofluorobenzene	460-00-4	0.2	%		**73.9**	**92.2**	**94.2**	**103**	**106**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BH109_0.3-0.4	BH101_0-0.1	BH103_0.1-0.2	BH104_0.6-0.7	TSC-23
			Sampling date / time	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	04-Aug-2025 00:00
Compound	CAS Number	LOR	Unit	ES2524646-029	ES2524646-030	ES2524646-031	ES2524646-032	ES2524646-044
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	5.6	----	----	----	----
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	No	No	No	No	----
Asbestos (Trace)	1332-21-4	-	-	No	No	No	No	----
Asbestos Type	1332-21-4	-	--	-	-	-	-	----
Synthetic Mineral Fibre	----	-	--	No	No	No	No	----
Organic Fibre	----	-	--	No	No	No	No	----
Sample weight (dry)	----	0.01	g	666	722	610	401	----
APPROVED IDENTIFIER:	----	-	--	J. WILLIAMS	J. WILLIAMS	J. WILLIAMS	J. WILLIAMS	----
EG005(ED093)T: Total Metals by ICP-AES								
Silver	7440-22-4	2	mg/kg	<2	----	----	----	----
Arsenic	7440-38-2	5	mg/kg	<5	----	----	----	----
Cadmium	7440-43-9	1	mg/kg	<1	----	----	----	----
Chromium	7440-47-3	2	mg/kg	18	----	----	----	----
Copper	7440-50-8	5	mg/kg	16	----	----	----	----
Lead	7439-92-1	5	mg/kg	61	----	----	----	----
Nickel	7440-02-0	2	mg/kg	14	----	----	----	----
Zinc	7440-66-6	5	mg/kg	89	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	0.1	----	----	----	----
EP010: Formaldehyde								
Formaldehyde	50-00-0	1	mg/kg	<1	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	----	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	----	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	----	----	----	----
Fluorene	86-73-7	0.5	mg/kg	<0.5	----	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BH109_0.3-0.4	BH101_0-0.1	BH103_0.1-0.2	BH104_0.6-0.7	TSC-23
				Sampling date / time	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	04-Aug-2025 00:00
Compound	CAS Number	LOR	Unit		ES2524646-029	ES2524646-030	ES2524646-031	ES2524646-032	ES2524646-044
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	----	----	----	----
Anthracene	120-12-7	0.5	mg/kg		<0.5	----	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	----	----	----	----
Pyrene	129-00-0	0.5	mg/kg		<0.5	----	----	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	----	----	----	----
Chrysene	218-01-9	0.5	mg/kg		<0.5	----	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		<0.5	----	----	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		<0.5	----	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<0.5	----	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	----	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	----	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	----	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		<0.5	----	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	----	----	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**0.6**	----	----	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.2**	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	----	----	----	----
C10 - C14 Fraction	----	50	mg/kg		<50	----	----	----	----
C15 - C28 Fraction	----	100	mg/kg		<100	----	----	----	----
C29 - C36 Fraction	----	100	mg/kg		<100	----	----	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg		<50	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	----	----	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	----	----	----	----
>C10 - C16 Fraction	----	50	mg/kg		<50	----	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BH109_0.3-0.4	BH101_0-0.1	BH103_0.1-0.2	BH104_0.6-0.7	TSC-23
				Sampling date / time	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	04-Aug-2025 00:00
Compound	CAS Number	LOR	Unit		ES2524646-029	ES2524646-030	ES2524646-031	ES2524646-032	ES2524646-044
					Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
>C16 - C34 Fraction	----	100	mg/kg		**110**	----	----	----	----
>C34 - C40 Fraction	----	100	mg/kg		**100**	----	----	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		**210**	----	----	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	----	----	----	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	----	----	----	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	----	----	----	**7.3**
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	----	----	----	**9.3**
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	----	----	----	**9.8**
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	----	----	----	**4.0**
^ Sum of BTEX	----	0.2	mg/kg		<0.2	----	----	----	**30.4**
^ Total Xylenes	----	0.5	mg/kg		<0.5	----	----	----	**13.8**
Naphthalene	91-20-3	1	mg/kg		<1	----	----	----	<1
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		**84.7**	----	----	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%		**88.6**	----	----	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%		**65.1**	----	----	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		**119**	----	----	----	----
Anthracene-d10	1719-06-8	0.5	%		**99.1**	----	----	----	----
4-Terphenyl-d14	1718-51-0	0.5	%		**117**	----	----	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		**81.9**	----	----	----	**85.9**
Toluene-D8	2037-26-5	0.2	%		**89.4**	----	----	----	**94.6**
4-Bromofluorobenzene	460-00-4	0.2	%		**100**	----	----	----	**84.7**

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	BH01	BH02	BH03	DUP1	Rinsate 1
			Sampling date / time	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00
Compound	CAS Number	LOR	Unit	ES2524646-001	ES2524646-002	ES2524646-003	ES2524646-004	ES2524646-005
				Result	Result	Result	Result	Result
EG020T: Total Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	**0.004**	<0.001	**0.003**	**0.003**	<0.001
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium	7440-47-3	0.001	mg/L	**0.029**	<0.001	**0.009**	**0.022**	<0.001
Copper	7440-50-8	0.001	mg/L	**0.033**	**0.025**	**0.058**	**0.027**	<0.001
Lead	7439-92-1	0.001	mg/L	**0.010**	**0.002**	**0.018**	**0.008**	<0.001
Nickel	7440-02-0	0.001	mg/L	**0.041**	**0.014**	**0.017**	**0.025**	<0.001
Silver	7440-22-4	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Zinc	7440-66-6	0.005	mg/L	**0.139**	**0.069**	**0.249**	**0.105**	<0.005
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
EP010: Formaldehyde								
Formaldehyde	50-00-0	0.1	mg/L	**5.3**	**0.5**	**0.3**	**5.1**	<0.1
EP074A: Monocyclic Aromatic Hydrocarbons								
Styrene	100-42-5	5	µg/L	<5	<5	<5	<5	<5
Isopropylbenzene	98-82-8	5	µg/L	<5	<5	<5	<5	<5
n-Propylbenzene	103-65-1	5	µg/L	<5	<5	<5	<5	<5
1.3.5-Trimethylbenzene	108-67-8	5	µg/L	<5	<5	<5	<5	<5
sec-Butylbenzene	135-98-8	5	µg/L	<5	<5	<5	<5	<5
1.2.4-Trimethylbenzene	95-63-6	5	µg/L	<5	<5	<5	<5	<5
tert-Butylbenzene	98-06-6	5	µg/L	<5	<5	<5	<5	<5
p-Isopropyltoluene	99-87-6	5	µg/L	<5	<5	<5	<5	<5
n-Butylbenzene	104-51-8	5	µg/L	<5	<5	<5	<5	<5
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	50	µg/L	<50	<50	<50	<50	<50
2-Butanone (MEK)	78-93-3	50	µg/L	<50	<50	<50	<50	<50
4-Methyl-2-pentanone (MIBK)	108-10-1	50	µg/L	<50	<50	<50	<50	<50
2-Hexanone (MBK)	591-78-6	50	µg/L	<50	<50	<50	<50	<50

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BH01	BH02	BH03	DUP1	Rinsate 1
				Sampling date / time	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00
Compound	CAS Number	LOR	Unit		ES2524646-001	ES2524646-002	ES2524646-003	ES2524646-004	ES2524646-005
					Result	Result	Result	Result	Result
EP074C: Sulfonated Compounds									
Carbon disulfide	75-15-0	5	µg/L		<5	<5	<5	<5	<5
EP074D: Fumigants									
2.2-Dichloropropane	594-20-7	5	µg/L		<5	<5	<5	<5	<5
1.2-Dichloropropane	78-87-5	5	µg/L		<5	<5	<5	<5	<5
cis-1.3-Dichloropropylene	10061-01-5	5	µg/L		<5	<5	<5	<5	<5
trans-1.3-Dichloropropylene	10061-02-6	5	µg/L		<5	<5	<5	<5	<5
1.2-Dibromoethane (EDB)	106-93-4	5	µg/L		<5	<5	<5	<5	<5
EP074E: Halogenated Aliphatic Compounds									
Dichlorodifluoromethane	75-71-8	50	µg/L		<50	<50	<50	<50	<50
Chloromethane	74-87-3	50	µg/L		<50	<50	<50	<50	<50
Vinyl chloride	75-01-4	50	µg/L		<50	<50	<50	<50	<50
Bromomethane	74-83-9	50	µg/L		<50	<50	<50	<50	<50
Chloroethane	75-00-3	50	µg/L		<50	<50	<50	<50	<50
Trichlorofluoromethane	75-69-4	50	µg/L		<50	<50	<50	<50	<50
1.1-Dichloroethene	75-35-4	5	µg/L		<5	<5	<5	<5	<5
Iodomethane	74-88-4	5	µg/L		<5	<5	<5	<5	<5
trans-1.2-Dichloroethene	156-60-5	5	µg/L		<5	<5	<5	<5	<5
1.1-Dichloroethane	75-34-3	5	µg/L		<5	<5	<5	<5	<5
cis-1.2-Dichloroethene	156-59-2	5	µg/L		<5	<5	<5	<5	<5
1.1.1-Trichloroethane	71-55-6	5	µg/L		<5	<5	<5	<5	<5
1.1-Dichloropropylene	563-58-6	5	µg/L		<5	<5	<5	<5	<5
Carbon Tetrachloride	56-23-5	5	µg/L		<5	<5	<5	<5	<5
1.2-Dichloroethane	107-06-2	5	µg/L		<5	<5	<5	<5	<5
Trichloroethene	79-01-6	5	µg/L		<5	<5	<5	<5	<5
Dibromomethane	74-95-3	5	µg/L		<5	<5	<5	<5	<5
1.1.2-Trichloroethane	79-00-5	5	µg/L		<5	<5	<5	<5	<5
1.3-Dichloropropane	142-28-9	5	µg/L		<5	<5	<5	<5	<5

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BH01	BH02	BH03	DUP1	Rinsate 1
				Sampling date / time	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00
Compound	CAS Number	LOR	Unit		ES2524646-001	ES2524646-002	ES2524646-003	ES2524646-004	ES2524646-005
					Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued									
Tetrachloroethene	127-18-4	5	µg/L		<5	<5	<5	<5	<5
1.1.1.2-Tetrachloroethane	630-20-6	5	µg/L		<5	<5	<5	<5	<5
trans-1.4-Dichloro-2-butene	110-57-6	5	µg/L		<5	<5	<5	<5	<5
cis-1.4-Dichloro-2-butene	1476-11-5	5	µg/L		<5	<5	<5	<5	<5
1.1.2.2-Tetrachloroethane	79-34-5	5	µg/L		<5	<5	<5	<5	<5
1.2.3-Trichloropropane	96-18-4	5	µg/L		<5	<5	<5	<5	<5
Pentachloroethane	76-01-7	5	µg/L		<5	<5	<5	<5	<5
1.2-Dibromo-3-chloropropane	96-12-8	5	µg/L		<5	<5	<5	<5	<5
Hexachlorobutadiene	87-68-3	5	µg/L		<5	<5	<5	<5	<5
EP074F: Halogenated Aromatic Compounds									
Chlorobenzene	108-90-7	5	µg/L		<5	<5	<5	<5	<5
Bromobenzene	108-86-1	5	µg/L		<5	<5	<5	<5	<5
2-Chlorotoluene	95-49-8	5	µg/L		<5	<5	<5	<5	<5
4-Chlorotoluene	106-43-4	5	µg/L		<5	<5	<5	<5	<5
1.3-Dichlorobenzene	541-73-1	5	µg/L		<5	<5	<5	<5	<5
1.4-Dichlorobenzene	106-46-7	5	µg/L		<5	<5	<5	<5	<5
1.2-Dichlorobenzene	95-50-1	5	µg/L		<5	<5	<5	<5	<5
1.2.4-Trichlorobenzene	120-82-1	5	µg/L		<5	<5	<5	<5	<5
1.2.3-Trichlorobenzene	87-61-6	5	µg/L		<5	<5	<5	<5	<5
EP074G: Trihalomethanes									
Chloroform	67-66-3	5	µg/L		<5	<5	<5	<5	<5
Bromodichloromethane	75-27-4	5	µg/L		<5	<5	<5	<5	<5
Dibromochloromethane	124-48-1	5	µg/L		<5	<5	<5	<5	<5
Bromoform	75-25-2	5	µg/L		<5	<5	<5	<5	<5
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthylene	208-96-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BH01	BH02	BH03	DUP1	Rinsate 1
				Sampling date / time	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00
Compound	CAS Number	LOR	Unit		ES2524646-001	ES2524646-002	ES2524646-003	ES2524646-004	ES2524646-005
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Acenaphthene	83-32-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Fluorene	86-73-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Phenanthrene	85-01-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Anthracene	120-12-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Fluoranthene	206-44-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Pyrene	129-00-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benz(a)anthracene	56-55-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Chrysene	218-01-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(k)fluoranthene	207-08-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	50-32-8	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Dibenz(a.h)anthracene	53-70-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(g.h.i)perylene	191-24-2	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	20	µg/L		<20	<20	<20	<20	<20
C10 - C14 Fraction	----	50	µg/L		<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	µg/L		<100	<100	<100	<100	<100
C29 - C36 Fraction	----	50	µg/L		<50	<50	<50	<50	<50
^ C10 - C36 Fraction (sum)	----	50	µg/L		<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	20	µg/L		<20	<20	<20	<20	<20
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L		<20	<20	<20	<20	<20
>C10 - C16 Fraction	----	100	µg/L		<100	<100	<100	<100	<100

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BH01	BH02	BH03	DUP1	Rinsate 1
				Sampling date / time	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00
Compound	CAS Number	LOR	Unit		ES2524646-001	ES2524646-002	ES2524646-003	ES2524646-004	ES2524646-005
					Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
>C16 - C34 Fraction	----	100	µg/L		<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	µg/L		<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	100	µg/L		<100	<100	<100	<100	<100
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L		<100	<100	<100	<100	<100
EP080: BTEXN									
Benzene	71-43-2	1	µg/L		<1	<1	<1	<1	<1
Toluene	108-88-3	2	µg/L		5	<2	<2	4	<2
Ethylbenzene	100-41-4	2	µg/L		<2	<2	<2	<2	<2
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L		<2	<2	<2	<2	<2
ortho-Xylene	95-47-6	2	µg/L		<2	<2	<2	<2	<2
^ Total Xylenes	----	2	µg/L		<2	<2	<2	<2	<2
^ Sum of BTEX	----	1	µg/L		5	<1	<1	4	<1
Naphthalene	91-20-3	5	µg/L		<5	<5	<5	<5	<5
EP074S: VOC Surrogates									
1.2-Dichloroethane-D4	17060-07-0	5	%		109	106	108	110	110
Toluene-D8	2037-26-5	5	%		104	102	105	103	106
4-Bromofluorobenzene	460-00-4	5	%		103	99.9	102	102	103
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%		28.0	26.7	23.2	21.5	21.6
2-Chlorophenol-D4	93951-73-6	1.0	%		70.7	59.2	53.9	48.9	52.9
2.4.6-Tribromophenol	118-79-6	1.0	%		92.2	73.6	64.2	65.1	37.1
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1.0	%		78.8	72.1	64.0	60.0	60.8
Anthracene-d10	1719-06-8	1.0	%		85.5	79.6	68.0	64.8	54.8
4-Terphenyl-d14	1718-51-0	1.0	%		98.8	88.7	75.8	73.0	67.6
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	2	%		121	118	120	121	122

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BH01	BH02	BH03	DUP1	Rinsate 1
				Sampling date / time	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00
Compound	CAS Number	LOR	Unit		ES2524646-001	ES2524646-002	ES2524646-003	ES2524646-004	ES2524646-005
					Result	Result	Result	Result	Result
EP080S: TPH(V)/BTEX Surrogates - Continued									
Toluene-D8	2037-26-5	2	%		**112**	**109**	**112**	**111**	**113**
4-Bromofluorobenzene	460-00-4	2	%		**102**	**97.5**	**98.4**	**99.3**	**99.9**

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	Trip Blank	Trip Spike - 19	----	----	----
			Sampling date / time	04-Aug-2025 00:00	04-Aug-2025 00:00	----	----	----
Compound	CAS Number	LOR	Unit	ES2524646-006	ES2524646-007	--------	--------	--------
				Result	Result	----	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	<20	180	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	20	µg/L	<20	200	----	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	<20	120	----	----	----
EP080: BTEXN								
Benzene	71-43-2	1	µg/L	<1	14	----	----	----
Toluene	108-88-3	2	µg/L	<2	15	----	----	----
Ethylbenzene	100-41-4	2	µg/L	<2	16	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	17	----	----	----
ortho-Xylene	95-47-6	2	µg/L	<2	17	----	----	----
^ Total Xylenes	----	2	µg/L	<2	34	----	----	----
^ Sum of BTEX	----	1	µg/L	<1	79	----	----	----
Naphthalene	91-20-3	5	µg/L	<5	18	----	----	----
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	2	%	91.8	74.8	----	----	----
Toluene-D8	2037-26-5	2	%	97.0	85.9	----	----	----
4-Bromofluorobenzene	460-00-4	2	%	116	104	----	----	----

Analytical Results

Descriptive Results

Sub-Matrix: **SOIL**

Method: Compound	*Sample ID - Sampling date / time*	*Analytical Results*
EA200: AS 4964 - 2004 Identification of Asbestos in Soils		
EA200: Description	BH106_0.2-0.3 - 11-Aug-2025 00:00	A soil sample.
EA200: Description	BH104_0.3-0.4 - 11-Aug-2025 00:00	A soil sample.
EA200: Description	BH102_0-0.1 - 11-Aug-2025 00:00	A soil sample.
EA200: Description	BH102_0.4-0.5 - 11-Aug-2025 00:00	A soil sample.
EA200: Description	BH103-0.5-0.6 - 11-Aug-2025 00:00	A soil sample.
EA200: Description	BH103_0.7-0.8 - 11-Aug-2025 00:00	A soil sample.
EA200: Description	BH104_0.2-0.3 - 11-Aug-2025 00:00	A soil sample.
EA200: Description	BH105_0.2-0.3 - 11-Aug-2025 00:00	A soil sample.
EA200: Description	BH106_0.5-0.6 - 11-Aug-2025 00:00	A soil sample.
EA200: Description	BH107_0-0.1 - 11-Aug-2025 00:00	A soil sample.
EA200: Description	BH107_0.2-0.3 - 11-Aug-2025 00:00	A soil sample.
EA200: Description	BH108_0.5-0.6 - 11-Aug-2025 00:00	A soil sample.
EA200: Description	BH108_0.1-0.2 - 11-Aug-2025 00:00	A soil sample.
EA200: Description	BH109_0-0.1 - 11-Aug-2025 00:00	A soil sample.
EA200: Description	BH109_0.3-0.4 - 11-Aug-2025 00:00	A soil sample.
EA200: Description	BH101_0-0.1 - 11-Aug-2025 00:00	A soil sample.
EA200: Description	BH103_0.1-0.2 - 11-Aug-2025 00:00	A soil sample.
EA200: Description	BH104_0.6-0.7 - 11-Aug-2025 00:00	A soil sample.

Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	63	123
2-Chlorophenol-D4	93951-73-6	66	122
2.4.6-Tribromophenol	118-79-6	40	138
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	70	122
Anthracene-d10	1719-06-8	66	128
4-Terphenyl-d14	1718-51-0	65	129
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	63	125
Toluene-D8	2037-26-5	67	124
4-Bromofluorobenzene	460-00-4	66	131

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP074S: VOC Surrogates			
1.2-Dichloroethane-D4	17060-07-0	78	133
Toluene-D8	2037-26-5	79	129
4-Bromofluorobenzene	460-00-4	81	124
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	10	44
2-Chlorophenol-D4	93951-73-6	14	94
2.4.6-Tribromophenol	118-79-6	17	125
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	20	104
Anthracene-d10	1719-06-8	27	113
4-Terphenyl-d14	1718-51-0	32	112
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	72	143
Toluene-D8	2037-26-5	75	131
4-Bromofluorobenzene	460-00-4	73	137

Inter-Laboratory Testing

Analysis conducted by ALS Newcastle, NATA accreditation no. 825, site no. 1656 (Chemistry / Biology).

(SOIL) EA200: AS 4964 - 2004 Identification of Asbestos in Soils

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

TETRA TECH COFFEY

Consigning Office:	Chatswood				
Report Results to:	~~Ben Everingham~~ ~~Kelsie McGillen~~	Mobile:	~~0424 703 089~~	Email:	ben.everingham@tetratech.com
Invoices to:	~~Kelsie McGillen~~	Phone:	~~0424 703 089~~	Email:	kelsie.mcgillen@tetratech.com

Project No:	~~SYDGE379468~~ SYDGE351816	Task No:	Labs
Project Name:	~~Lismore South Public School~~	Laboratory:	~~Eurofins~~ ALS
Sampler's Name:		Project Manager:	~~Kelsie McGillen~~ Ben Everingham
Quote number (if different to current quoted prices):			
Special Instructions:	5 Day Turn Around Time		

Lab Batch Ref	Sample ID	Sample Date	Time	Matrix (Soil...etc)	Container Type & Preservative*	T-A-T (specify)
	BH01	11/5/25		Water		
	BH02					
	BH03					
	DUP1					
	TRIP 1					
	Rinsate 1					
	Rinsate 2			Soil	J	
	DUP2				J+Z	
	TRIP 2				J+Z	
45	DUP3				J	
~~45~~	TRIP3				J	
	BH101_0-0.1				J+Z	
	BH101_0.3-0.4				J+Z	
	BH101_0.9-1.0				J+Z	
	BH102_~~0.0~~0-0.1				J+Z	
	BH102_0.4-0.5				J+Z	

Analysis Request Section

Suite B7 (Trh, BTEXN, PAH, Metal)	Suite B15 (OCP, OPP, PCB)	Phenols (speciated)	Coal Tar in Asphalt	Chromium Reducible Sulfur	Asbestos Bulk ID	Asbestos ID in Soil (50g)	TCLP PAH	TCLP Metals	PFAS Short Suite

Please forward to Eurofins

Forward to Eurofins

Forward to Eurofins

RELINQUISHED BY		RECEIVED BY	
Name:	Date:	Name: Butent	Date: 12/8/25
Coffey	Time:	Company: ALS CROWSNEST	Time: 11:25 am
Name: Brendan	Date: 12/8/25 →	Name: Wes	Date: 12/8/25
Company:	Time: 12:29 PM	Company: AJ	Time: 1436

Sample Receipt Advice: (Lab Use Only)

- All Samples Recieved in Good Condition ☑
- All Documentation is in Proper Order ☑
- Samples Received Properly Chilled ☑ -1.6°C
- Lab. Ref/Batch No. [ ] 0.3°C -1.1°C

3 HARD ESKIES

9.0°C i25555

CH

***Container Type & Preservation Codes:** P - Plastic, G- Glass Bottle, J - Glass Jar, V- Vial, Z - Ziplock bag, N - Nitric Acid Preserved, C - Hydrochloric Acid Preserved, S - Sulphuric Acid Preserved, I - Ice, ST - Sodium Thiosulfate, NP - No Preservative

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

TETRA TECH COFFEY

Consigning Office: Chatswood

Report Results to: ~~Kelsie McGillen~~ Mobile: ~~0424 703 009~~ Email: ~~kelsie.mcgillen@tetratech.com~~

Invoices to: ~~Kelsie McGillen~~ Phone: ~~0424 703 009~~ Email:

Project No: ~~SYDGE379468~~ Task No: Labs

Project Name: Lismore South Public School Laboratory: ~~Eurofins~~

Sampler's Name: Project Manager: ~~Kelsie McGillen~~

Quote number (if different to current quoted prices):

Special Instructions: 5 Day Turn Around Time

Analysis Request Section

Lab Batch Ref	Sample ID	Sample Date	Time	Matrix (Soil...etc)	Container Type & Preservative*	T-A-T (specify)	Suite B7 (TPH, BTEXN, PAH, Metal	Suite B15 (OCP, OPP, PCB)	Phenols (speciated)	Coal Tar in Asphalt	Chromium Reducible Sulfur	Asbestos Bulk ID	Asbestos ID in Soil (50g)	TCLP PAH	TCLP Metals	PFAS Short Suite				NOTES
	BH103 - 0.1-0.2	11/6/25		Soil	JT2															
	BH103 - 0.5-0.6																			
	BH103 - 0.7-0.8																			
33	BH104 - 0-0.1																			
	BH104 - 0.2-0.3																			
	BH104 - 0.6-0.7																			
	BH104 - 0.8-0.9																			
34	BH105 - 0-0.1																			
	BH105 - 0.2-0.3																			
35	BH105 - 0.4-0.5																			
	BH105 - 1.1-1.2																			
36	BH106 - 0-0.1																			
	BH106 - 0.2-0.3																			
39	BH106 - 0.4-0.5																			
38 40	BH106 - 0.5-0.6																			
	BH106 - 0.6-0.7																			

RELINQUISHED BY

Name: Coffey Date: Time:

Name: Company: Date: Time:

RECEIVED BY

Name: Brent Date: 12/8/25

Company: ALS CROWS NEST Time: 11:25 am

Name: Wcag Date: 12/8/25

Company: ALS Time: 1436.

Sample Receipt Advice: (Lab Use Only)

All Samples Recieved in Good Condition ☐

All Documentation is in Proper Order ☐

Samples Received Properly Chilled ☐

Lab. Ref/Batch No.

*Container Type & Preservation Codes: **P** - Plastic, **G**- Glass Bottle, **J** - Glass Jar, **V**- Vial, **Z** - Ziplock bag, **N** - Nitric Acid Preserved, **C** - Hydrochloric Acid Preserved, **S** - Sulphuric Acid Preserved, **I** - Ice, **ST** - Sodium Thiosulfate, **NP** - No Preservative

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

TETRA TECH COFFEY

Consigning Office: Chatswood

Report Results to: ~~Kelsie McGillen~~ Mobile: ~~0424 703 009~~ Email: kelsie.mcgillen@tetratech.com

Invoices to: ~~Kelsie McGillen~~ Phone: ~~0424 703 009~~ Email:

Project No: ~~SWDGE379468~~ Task No: Labs

Project Name: ~~Lismore South Public School~~ Laboratory: ~~Eurofins~~

Sampler's Name: Project Manager: ~~Kelsie McGillen~~

Quote number (if different to current quoted prices):

Special Instructions: 5 Day Turn Around Time

Lab Batch Ref	Sample ID	Sample Date	Time	Matrix (Soil...etc)	Container Type & Preservative*	T-A-T (specify)
439	BH106_1.2-1.3	11/8/25		Soil	J*2	
	BH107_0-0.1					
	BH107_0.2-0.3					
440	BH108_0-0.1					
	BH108_0.1-0.2					
	BH108_0.5-0.6					
	BH109_0-0.1					
	BH109_0.3-0.4					
441	BH110_0-0.1					
442	BH110_0.3-0.4					
443	BH105_0.3.0.4					
44	TSC-23	4/8				

Analysis Request Section

Suite B7 (Trh, BTEXN, PAH, Metal	Suite B15 (OCP, OPP, PCB)	Phenols (speciated)	Coal Tar in Asphalt	Chromium Reducible Sulfur	Asbestos Bulk ID	Asbestos ID in Soil (50g)	TCLP PAH	TCLP Metals	PFAS Short Suite				NOTES

RELINQUISHED BY

Name: Date:

Coffey Time:

Name: Date:

Company: Time:

RECEIVED BY

Name: Bulent Date: 12/8/25

Company: ALS CROWS NEST Time: 11:25 am

Name: WONG Date: 12/8/25

Company: ALS Time: 1436.

Sample Receipt Advice: (Lab Use Only)

All Samples Recieved in Good Condition ☐

All Documentation is in Proper Order ☐

Samples Received Properly Chilled ☐

Lab. Ref/Batch No.

***Container Type & Preservation Codes:** **P** - Plastic, **G**- Glass Bottle, **J** - Glass Jar, **V**- Vial, **Z** - Ziplock bag, **N** - Nitric Acid Preserved, **C** - Hydrochloric Acid Preserved, **S** - Sulphuric Acid Preserved, **I** - Ice, **ST** - Sodium Thiosulfate, **NP** - No Preservative

UPDATED COC

HT

Table 1: Groundwater analysis

	Sample ID	Matrix	Sample date	TRH	PAH	BTEXN	VOC (including VOA and VHC)	TRH (C6-C10)	Heavy Metals (M8 plus silver)	Asbestos ID	Formaldehyde	Notes
1.	BH01	Water	11/8/2025	X	X	X	X		X		X	
2.	BH02	Water	11/8/2025	X	X	X	X		X		X	
3.	BH03	Water	11/8/2025	X	X	X	X		X		X	
4.	DUP1	Water	11/8/2025	X	X	X	X		X		X	
	TRIP1	Water	11/8/2025	X	X	X	X		X		X	Please send to Eurofins for analysis
5.	Rinsate1	Water	11/8/2025	X	X	X	X		X		X	
6.	Trip Blank	Water	11/8/2025			X		X				
7.	Trip Spike - TS	Water	11/8/2025			X		X				

Subcon / Forward Lab / Split WO:
Eurofins
Lab / Analysis: Eurofins | Trip1, Trip2, Trip3.
Relinquished Date:
WO:

Subcon / Forward Lab / Split WO:
Lab / Analysis: NeuraHC | Asbestos
Relinquished Date:
WO:

Environmental Division
Sydney
Work Order Reference
ES2524646

Telephone : +61-2-8784 8555

Rec: 12/8/25
1518

Brennan
12/8/25
12:24pm
9.0°C
CH

Table 2: Soil analysis

	Sample ID	Matrix	Sample date	TRH	PAH	BTEXN	VOC (including VOA and VHC)	TRH (C6-C10)	Heavy Metals (M8 plus silver)	Asbestos ID	Formaldehyde	Notes
8	DUP2	Soil	11.8.2025	X	X	X	X		X		X	
	TRIP2	Soil	11.8.2025	X	X	X	X		X		X	Please send to Eurofins for analysis
9.	Rinsate 2	Water	11.8.2025	X	X	X	X		X		X	
10.	Trip Spike -23	Soil	11.8.2025			X		X				
11.	Trip Blank	Soil	11.8.2025			X		X				
12	BH106_0.2-0.3	Soil	11.8.2025	X	X	X	X		X	X	X	
13	BH101_0.9-1.0	Soil	11.8.2025	X	X	X	X		X		X	
14	BH101_0.3-0.4	Soil	11.8.2025	X	X	X	X		X	X	X	
15	BH102_0-0.1	Soil	11.8.2025	X	X	X	X		X	X	X	
16	BH102_0.4-0.5	Soil	11.8.2025	X	X	X	X		X	X	X	
17	BH103_0.5-0.6	Soil	11.8.2025	X	X	X	X		X	X	X	
18	BH103_0.7-0.8	Soil	11.8.2025	X	X	X	X		X	X	X	
19	BH104_0.2-0.3	Soil	11.8.2025	X	X	X	X		X		X	
20	BH104_0.8-0.9	Soil	11.8.2025	X	X	X	X		X	X	X	
21	BH105_0.2-0.3	Soil	11.8.2025	X	X	X	X		X		X	
22	BH105_1.1-1.2	Soil	11.8.2025	X	X	X	X		X	X	X	
23	BH106_0.5-0.6	Soil	11.8.2025	X	X	X	X		X	X	X	
24	BH107_0-0.1	Soil	11.8.2025	X	X	X	X		X	X	X	
25	BH107_0.2-0.3	Soil	11.8.2025	X	X	X	X		X	X	X	
26	BH108_0.5-0.6	Soil	11.8.2025	X	X	X	X		X	X	X	
27	BH108_0.1-0.2	Soil	11.8.2025	X	X	X	X		X	X	X	
28	BH109_0-0.1	Soil	11.8.2025	X	X	X	X		X	X	X	
29	BH109_0.3-0.4	Soil	11.8.2025	X	X	X	X		X	X	X	
[redacted]	BH109_0-0.1	Soil	11.8.2025	X	X	X	X		X	X	X	
[redacted]	BH109_0.3-0.4	Soil	11.8.2025	X	X	X	X		X	X	X	
30	BH101_0-0.1	Soil	11.8.2025							X		
31	BH103_0.1-0.2	Soil	11.8.2025							X		
32	BH104_0.6-0.7	Soil	11.8.2025							X		

Rec'd
12/8/25
1518.

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Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	+61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

Eurofins ARL Pty Ltd

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46-48 Banksia Road
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WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370 & 2554

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise	43 Detroit Drive	1277 Cameron Road
Penrose	Mount Wellington	Rolleston	Gate Pa
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	Tetra Tech Coffey Geotechnics Pty Ltd Chatswood
Contact name:	Benjamin Everingham
Project name:	Not provided
Project ID:	SYDGE351816
Turnaround time:	5 Day
Date/Time received	Aug 13, 2025 12:24 PM
Eurofins reference	1255551

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 9 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.
N/A	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	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:

Adam Bateup on phone : or by email: Adam.Bateup@eurofinsanz.com

Results will be delivered electronically via email to Benjamin Everingham - BEN.EVERINGHAM@tetratech.com.

Note: A copy of these results will also be delivered to the general Tetra Tech Coffey Geotechnics Pty Ltd Chatswood email address.

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web: www.eurofins.com.au
email: EnviroSales@eurofinsanz.com

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: Tetra Tech Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name:
Project ID: SYDGE351816

Order No.:
Report #: 1255551
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: Aug 13, 2025 12:24 PM
Due: Aug 20, 2025
Priority: 5 Day
Contact Name: Benjamin Everingham

Eurofins Analytical Services Manager : Adam Bateup

Sample Detail						Formaldehyde	Formaldehyde in soil*	HOLD*	Silver	Volatile Organics	Moisture Set	Eurofins Suite B7
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X					
Sydney Laboratory - NATA # 1261 Site # 18217								X	X	X	X	X
External Laboratory												
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**							
1	TRIP 1	Aug 11, 2025		Water	S25-Au0032842	X			X	X		X
2	TRIP 2	Aug 11, 2025		Soil	S25-Au0032843		X		X	X	X	X
3	TRIP 3	Aug 11, 2025		Soil	S25-Au0032844			X				
Test Counts						1	1	1	2	2	1	2

Tetra Tech Coffey Geotechnics Pty Ltd Chatswood
Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

NATA Accredited
Accreditation Number 1261
Site Number 18217

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

Attention: **Benjamin Everingham**

Report **1255551-S**
Project name
Project ID SYDGE351816
Received Date Aug 13, 2025

Client Sample ID			**TRIP 2**
Sample Matrix			**Soil**
Eurofins Sample No.			**S25-Au0032843**
Date Sampled			**Aug 11, 2025**
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons			
TRH C6-C9	20	mg/kg	< 20
TRH C10-C14	20	mg/kg	< 20
TRH C15-C28	50	mg/kg	< 50
TRH C29-C36	50	mg/kg	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50
TRH C6-C10	20	mg/kg	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20
TRH >C10-C16	50	mg/kg	< 50
TRH >C10-C16 less Naphthalene (F2)*[N01]	50	mg/kg	< 50
Naphthalene[N02]	0.5	mg/kg	< 0.5
TRH >C16-C34	100	mg/kg	< 100
TRH >C34-C40	100	mg/kg	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100
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	%	97
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

Client Sample ID			TRIP 2
Sample Matrix			Soil
Eurofins Sample No.			S25-Au0032843
Date Sampled			Aug 11, 2025
Test/Reference	LOR	Unit	
Volatile Organics			
1.3-Dichloropropane	0.5	mg/kg	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5
Benzene	0.1	mg/kg	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5
Bromoform	0.5	mg/kg	< 0.5
Bromomethane	0.5	mg/kg	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5
Chloroethane	0.5	mg/kg	< 0.5
Chloroform	0.5	mg/kg	< 0.5
Chloromethane	0.5	mg/kg	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1
Iodomethane	0.5	mg/kg	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5
o-Xylene	0.1	mg/kg	< 0.1
Styrene	0.5	mg/kg	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5
Toluene	0.1	mg/kg	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5
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	%	97
Toluene-d8 (surr.)	1	%	87

Client Sample ID			TRIP 2
Sample Matrix			Soil
Eurofins Sample No.			S25-Au0032843
Date Sampled			Aug 11, 2025
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	%	107
p-Terphenyl-d14 (surr.)	1	%	131
Formaldehyde in soil*	1	mg/kg	< 1
Heavy Metals			
Arsenic	2	mg/kg	5.4
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	17
Copper	5	mg/kg	140
Lead	5	mg/kg	110
Mercury	0.1	mg/kg	< 0.1
Nickel	5	mg/kg	15
Silver	2	mg/kg	< 2
Zinc	5	mg/kg	2700
Sample Properties			
% Moisture	1	%	11

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	Aug 13, 2025	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Aug 13, 2025	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Aug 13, 2025	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Aug 13, 2025	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Polycyclic Aromatic Hydrocarbons	Sydney	Aug 13, 2025	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Aug 13, 2025	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Volatile Organics	Sydney	Aug 13, 2025	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
Formaldehyde in soil	Melbourne	Aug 14, 2025	7 Days
- Method: LTM-INO-4400 Formaldehyde in soil and water			
Heavy Metals	Sydney	Aug 13, 2025	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Sydney	Aug 13, 2025	14 Days
- Method: LTM-GEN-7080 Moisture			

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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Company Name: Tetra Tech Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name:
Project ID: SYDGE351816

Order No.:
Report #: 1255551
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: Aug 13, 2025 12:24 PM
Due: Aug 20, 2025
Priority: 5 Day
Contact Name: Benjamin Everingham

Eurofins Analytical Services Manager : Adam Bateup

Sample Detail						Formaldehyde	Formaldehyde in soil*	HOLD*	Silver	Volatile Organics	Moisture Set	Eurofins Suite B7
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X					
Sydney Laboratory - NATA # 1261 Site # 18217								X	X	X	X	X
External Laboratory												
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**							
1	TRIP 1	Aug 11, 2025		Water	S25-Au0032842	X			X	X		X
2	TRIP 2	Aug 11, 2025		Soil	S25-Au0032843		X		X	X	X	X
3	TRIP 3	Aug 11, 2025		Soil	S25-Au0032844			X				
Test Counts						1	1	1	2	2	1	2

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Internal Quality Control Review and Glossary

General

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

Holding Times

Please refer to the '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 before sample receipt deadlines as stated on the SRA.

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

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

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

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**ppm:** parts per million
µg/L: micrograms per litre	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit	**Colour:** Pt-Co Units (CU)	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - 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.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

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

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

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

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

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

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as 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 are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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	
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							
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							
Formaldehyde in soil*	mg/kg	< 1			1	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	
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	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C10-C14	%	122			70-130	Pass	
TRH >C10-C16	%	114			70-130	Pass	
Naphthalene	%	103			70-130	Pass	
LCS - % Recovery							
BTEX							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzene	%	126			70-130	Pass	
Toluene	%	128			70-130	Pass	
Ethylbenzene	%	129			70-130	Pass	
m&p-Xylenes	%	128			70-130	Pass	
o-Xylene	%	125			70-130	Pass	
Xylenes - Total*	%	127			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	126			70-130	Pass	
1.1.1-Trichloroethane	%	127			70-130	Pass	
1.2-Dichlorobenzene	%	109			70-130	Pass	
1.2-Dichloroethane	%	129			70-130	Pass	
Trichloroethene	%	124			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	100			70-130	Pass	
Acenaphthylene	%	104			70-130	Pass	
Anthracene	%	98			70-130	Pass	
Benz(a)anthracene	%	95			70-130	Pass	
Benzo(a)pyrene	%	106			70-130	Pass	
Benzo(b&j)fluoranthene	%	89			70-130	Pass	
Benzo(g.h.i)perylene	%	77			70-130	Pass	
Benzo(k)fluoranthene	%	103			70-130	Pass	
Chrysene	%	105			70-130	Pass	
Dibenz(a.h)anthracene	%	105			70-130	Pass	
Fluoranthene	%	107			70-130	Pass	
Fluorene	%	101			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	93			70-130	Pass	
Naphthalene	%	103			70-130	Pass	
Phenanthrene	%	92			70-130	Pass	
Pyrene	%	104			70-130	Pass	
LCS - % Recovery							
Formaldehyde in soil*	%	94			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	93			80-120	Pass	
Cadmium	%	87			80-120	Pass	
Chromium	%	97			80-120	Pass	
Copper	%	96			80-120	Pass	
Lead	%	89			80-120	Pass	
Mercury	%	88			80-120	Pass	
Nickel	%	96			80-120	Pass	
Silver	%	100			80-120	Pass	
Zinc	%	95			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	S25-Au0039723	NCP	%	91			70-130	Pass	
TRH >C10-C16	S25-Au0039723	NCP	%	86			70-130	Pass	
Naphthalene	S25-Au0037864	NCP	%	76			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S25-Au0037864	NCP	%	126			70-130	Pass	
Toluene	S25-Au0037864	NCP	%	117			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Ethylbenzene	S25-Au0037864	NCP	%	109			70-130	Pass	
m&p-Xylenes	S25-Au0037864	NCP	%	117			70-130	Pass	
o-Xylene	S25-Au0037864	NCP	%	115			70-130	Pass	
Xylenes - Total*	S25-Au0037864	NCP	%	116			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	S25-Au0037864	NCP	%	102			70-130	Pass	
1.1.1-Trichloroethane	S25-Au0037864	NCP	%	97			70-130	Pass	
1.2-Dichlorobenzene	S25-Au0037864	NCP	%	86			70-130	Pass	
1.2-Dichloroethane	S25-Au0037864	NCP	%	105			70-130	Pass	
Trichloroethene	S25-Au0037864	NCP	%	116			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S25-Au0029054	NCP	%	116			70-130	Pass	
Acenaphthylene	S25-Au0029054	NCP	%	113			70-130	Pass	
Anthracene	S25-Au0029054	NCP	%	112			70-130	Pass	
Benz(a)anthracene	S25-Au0029054	NCP	%	117			70-130	Pass	
Benzo(a)pyrene	S25-Au0029054	NCP	%	124			70-130	Pass	
Benzo(b&j)fluoranthene	S25-Au0029054	NCP	%	112			70-130	Pass	
Benzo(g.h.i)perylene	S25-Au0029054	NCP	%	96			70-130	Pass	
Benzo(k)fluoranthene	S25-Au0029054	NCP	%	113			70-130	Pass	
Chrysene	S25-Au0029054	NCP	%	118			70-130	Pass	
Dibenz(a.h)anthracene	S25-Au0029054	NCP	%	124			70-130	Pass	
Fluoranthene	S25-Au0029054	NCP	%	123			70-130	Pass	
Fluorene	S25-Au0029054	NCP	%	117			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S25-Au0029054	NCP	%	122			70-130	Pass	
Naphthalene	S25-Au0029054	NCP	%	113			70-130	Pass	
Phenanthrene	S25-Au0029054	NCP	%	105			70-130	Pass	
Pyrene	S25-Au0029054	NCP	%	121			70-130	Pass	
Spike - % Recovery									
				Result 1					
Formaldehyde in soil*	M25-Au0038693	NCP	%	107			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	N25-Au0032066	NCP	%	90			75-125	Pass	
Cadmium	N25-Au0032066	NCP	%	93			75-125	Pass	
Chromium	N25-Au0032066	NCP	%	63			75-125	Fail	Q08
Copper	N25-Au0032066	NCP	%	84			75-125	Pass	
Lead	N25-Au0032066	NCP	%	90			75-125	Pass	
Mercury	N25-Au0032066	NCP	%	92			75-125	Pass	
Nickel	N25-Au0032066	NCP	%	67			75-125	Fail	Q08
Silver	W25-Au0022524	NCP	%	120			75-125	Pass	
Zinc	N25-Au0032066	NCP	%	86			75-125	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	S25-Au0032843	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S25-Au0039470	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S25-Au0039470	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S25-Au0039470	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C6-C10	S25-Au0032843	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S25-Au0039470	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Naphthalene	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH >C16-C34	S25-Au0039470	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S25-Au0039470	NCP	mg/kg	< 100	< 100	<1	30%	Pass	

Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S25-Au0032843	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S25-Au0032843	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S25-Au0032843	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S25-Au0032843	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S25-Au0032843	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S25-Au0032843	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	S25-Au0032843	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S25-Au0026949	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S25-Au0026949	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S25-Au0026949	NCP	mg/kg	0.5	0.7	32	30%	Fail	Q15
Benz(a)anthracene	S25-Au0026949	NCP	mg/kg	0.6	0.8	37	30%	Fail	Q15
Benzo(a)pyrene	S25-Au0026949	NCP	mg/kg	0.7	1.1	46	30%	Fail	Q15
Benzo(b&j)fluoranthene	S25-Au0026949	NCP	mg/kg	< 0.5	0.6	28	30%	Pass	
Benzo(g.h.i)perylene	S25-Au0026949	NCP	mg/kg	< 0.5	1.0	90	30%	Fail	Q15
Benzo(k)fluoranthene	S25-Au0026949	NCP	mg/kg	0.6	0.7	31	30%	Fail	Q15
Chrysene	S25-Au0026949	NCP	mg/kg	0.8	1.0	28	30%	Pass	
Dibenz(a.h)anthracene	S25-Au0026949	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S25-Au0026949	NCP	mg/kg	1.8	2.2	23	30%	Pass	
Fluorene	S25-Au0026949	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S25-Au0026949	NCP	mg/kg	< 0.5	0.6	45	30%	Fail	Q15
Naphthalene	S25-Au0026949	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S25-Au0026949	NCP	mg/kg	1.1	1.4	24	30%	Pass	
Pyrene	S25-Au0026949	NCP	mg/kg	1.5	2.1	34	30%	Fail	Q15
Duplicate									
				Result 1	Result 2	RPD			
Formaldehyde in soil*	M25-Au0035296	NCP	mg/kg	< 1	1.0	32	30%	Fail	Q15
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	W25-Au0022509	NCP	mg/kg	5.3	3.5	41	30%	Fail	Q15
Cadmium	W25-Au0022509	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	W25-Au0022509	NCP	mg/kg	21	13	44	30%	Fail	Q15
Copper	W25-Au0022509	NCP	mg/kg	73	68	6.0	30%	Pass	
Lead	W25-Au0022509	NCP	mg/kg	21	16	26	30%	Pass	
Mercury	W25-Au0022509	NCP	mg/kg	< 0.1	0.1	53	30%	Fail	Q15
Nickel	W25-Au0022509	NCP	mg/kg	6.7	5.2	24	30%	Pass	
Silver	W25-Au0022509	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Zinc	W25-Au0022509	NCP	mg/kg	26	23	11	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	S25-Au0033711	NCP	%	57	58	1.0	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	N/A
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
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:

Adam Bateup	Analytical Services Manager
Mickael Ros	Senior Analyst-Metal
Ryan Phillips	Senior Analyst-Sample Properties
Luke Holt	Senior Analyst-Inorganic
Raymond Siu	Senior Analyst-Volatile
Roopesh Rangarajan	Senior Analyst-Organic



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please click here.

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Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

NATA Accredited
Accreditation Number 1261
Site Number 18217

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

Attention: **Benjamin Everingham**

Report **1255551-W**
Project name
Project ID SYDGE351816
Received Date Aug 13, 2025

Client Sample ID			**TRIP 1**
Sample Matrix			**Water**
Eurofins Sample No.			**S25-Au0032842**
Date Sampled			**Aug 11, 2025**
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
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
Naphthalene[N02]	0.01	mg/L	< 0.01
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
BTEX			
Benzene	0.001	mg/L	< 0.001
Toluene	0.001	mg/L	0.007
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	%	116
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

Client Sample ID			TRIP 1
Sample Matrix			Water
Eurofins Sample No.			S25-Au0032842
Date Sampled			Aug 11, 2025
Test/Reference	LOR	Unit	
Volatile Organics			
1.3-Dichloropropane	0.001	mg/L	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001
2-Butanone (MEK)	0.005	mg/L	< 0.005
2-Propanone (Acetone)	0.005	mg/L	< 0.005
4-Chlorotoluene	0.001	mg/L	< 0.001
4-Methyl-2-pentanone (MIBK)	0.005	mg/L	< 0.005
Allyl chloride	0.001	mg/L	< 0.001
Benzene	0.001	mg/L	< 0.001
Bromobenzene	0.001	mg/L	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001
Bromoform	0.001	mg/L	< 0.001
Bromomethane	0.005	mg/L	< 0.005
Carbon disulfide	0.001	mg/L	0.005
Carbon Tetrachloride	0.001	mg/L	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001
Chloroethane	0.005	mg/L	< 0.005
Chloroform	0.005	mg/L	0.006
Chloromethane	0.005	mg/L	< 0.005
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001
Dibromomethane	0.001	mg/L	< 0.001
Dichlorodifluoromethane	0.005	mg/L	< 0.005
Ethylbenzene	0.001	mg/L	< 0.001
Iodomethane	0.001	mg/L	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002
Methylene Chloride	0.005	mg/L	< 0.005
o-Xylene	0.001	mg/L	< 0.001
Styrene	0.001	mg/L	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001
Toluene	0.001	mg/L	0.007
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001
Trichloroethene	0.001	mg/L	< 0.001
Trichlorofluoromethane	0.005	mg/L	< 0.005
Vinyl chloride	0.005	mg/L	< 0.005
Xylenes - Total*	0.003	mg/L	< 0.003
Total MAH*	0.003	mg/L	0.007
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	0.006
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	0.006
4-Bromofluorobenzene (surr.)	1	%	116
Toluene-d8 (surr.)	1	%	98

Client Sample ID			TRIP 1
Sample Matrix			Water
Eurofins Sample No.			S25-Au0032842
Date Sampled			Aug 11, 2025
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
Acenaphthene	0.001	mg/L	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001
Anthracene	0.001	mg/L	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001
Chrysene	0.001	mg/L	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001
Fluoranthene	0.001	mg/L	< 0.001
Fluorene	0.001	mg/L	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001
Naphthalene	0.001	mg/L	< 0.001
Phenanthrene	0.001	mg/L	< 0.001
Pyrene	0.001	mg/L	< 0.001
Total PAH*	0.001	mg/L	< 0.001
2-Fluorobiphenyl (surr.)	1	%	82
p-Terphenyl-d14 (surr.)	1	%	112
Formaldehyde	0.2	mg/L	2.0
Heavy Metals			
Arsenic	0.001	mg/L	< 0.001
Cadmium	0.0002	mg/L	< 0.0002
Chromium	0.001	mg/L	0.008
Copper	0.001	mg/L	0.002
Lead	0.001	mg/L	0.002
Mercury	0.0001	mg/L	< 0.0001
Nickel	0.001	mg/L	0.025
Silver	0.005	mg/L	< 0.005
Zinc	0.005	mg/L	0.096

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	Aug 14, 2025	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Aug 14, 2025	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Aug 14, 2025	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Aug 14, 2025	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Polycyclic Aromatic Hydrocarbons	Sydney	Aug 14, 2025	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Aug 14, 2025	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Volatile Organics	Sydney	Aug 14, 2025	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
Formaldehyde	Melbourne	Aug 14, 2025	7 Days
- Method: LTM-INO-4400 Formaldehyde in soil and water			
Heavy Metals	Sydney	Aug 14, 2025	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			

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Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	+61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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Project Name:
Project ID: SYDGE351816

Order No.:
Report #: 1255551
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: Aug 13, 2025 12:24 PM
Due: Aug 20, 2025
Priority: 5 Day
Contact Name: Benjamin Everingham

Eurofins Analytical Services Manager : Adam Bateup

Sample Detail						Formaldehyde	Formaldehyde in soil*	HOLD*	Silver	Volatile Organics	Moisture Set	Eurofins Suite B7
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X					
Sydney Laboratory - NATA # 1261 Site # 18217								X	X	X	X	X
External Laboratory												
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**							
1	TRIP 1	Aug 11, 2025		Water	S25-Au0032842	X			X	X		X
2	TRIP 2	Aug 11, 2025		Soil	S25-Au0032843		X		X	X	X	X
3	TRIP 3	Aug 11, 2025		Soil	S25-Au0032844			X				
Test Counts						1	1	1	2	2	1	2

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Internal Quality Control Review and Glossary

General

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

Holding Times

Please refer to the '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 before sample receipt deadlines as stated on the SRA.

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

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

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

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**ppm:** parts per million
µg/L: micrograms per litre	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit	**Colour:** Pt-Co Units (CU)	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - 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.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

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

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

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

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

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

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as 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 are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
Naphthalene	mg/L	< 0.01			0.01	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
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	
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	< 0.005			0.005	Pass	
2-Propanone (Acetone)	mg/L	< 0.005			0.005	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.005			0.005	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	
Bromomethane	mg/L	< 0.005			0.005	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	
Chlorobenzene	mg/L	< 0.001			0.001	Pass	
Chloroethane	mg/L	< 0.005			0.005	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chloromethane	mg/L	< 0.005			0.005	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Dibromochloromethane	mg/L	< 0.001			0.001	Pass	
Dibromomethane	mg/L	< 0.001			0.001	Pass	
Dichlorodifluoromethane	mg/L	< 0.005			0.005	Pass	
Iodomethane	mg/L	< 0.001			0.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001			0.001	Pass	
Methylene Chloride	mg/L	< 0.005			0.005	Pass	
Styrene	mg/L	< 0.001			0.001	Pass	
Tetrachloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Trichloroethene	mg/L	< 0.001			0.001	Pass	
Trichlorofluoromethane	mg/L	< 0.005			0.005	Pass	
Vinyl chloride	mg/L	< 0.005			0.005	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Formaldehyde	mg/L	< 0.2			0.2	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Silver	mg/L	< 0.005			0.005	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	79			70-130	Pass	
TRH C10-C14	%	89			70-130	Pass	
TRH C6-C10	%	79			70-130	Pass	
TRH >C10-C16	%	86			70-130	Pass	
Naphthalene	%	89			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
BTEX							
Benzene	%	129			70-130	Pass	
Toluene	%	127			70-130	Pass	
Ethylbenzene	%	130			70-130	Pass	
o-Xylene	%	129			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	119			70-130	Pass	
1.1.1-Trichloroethane	%	119			70-130	Pass	
1.2-Dichlorobenzene	%	96			70-130	Pass	
1.2-Dichloroethane	%	121			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	112			70-130	Pass	
Acenaphthylene	%	113			70-130	Pass	
Anthracene	%	125			70-130	Pass	
Benz(a)anthracene	%	97			70-130	Pass	
Benzo(a)pyrene	%	101			70-130	Pass	
Benzo(b&j)fluoranthene	%	99			70-130	Pass	
Benzo(g.h.i)perylene	%	111			70-130	Pass	
Benzo(k)fluoranthene	%	113			70-130	Pass	
Chrysene	%	108			70-130	Pass	
Dibenz(a.h)anthracene	%	111			70-130	Pass	
Fluorene	%	118			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	110			70-130	Pass	
Naphthalene	%	99			70-130	Pass	
Phenanthrene	%	128			70-130	Pass	
Pyrene	%	121			70-130	Pass	
LCS - % Recovery							
Formaldehyde	%	89			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	89			80-120	Pass	
Cadmium	%	92			80-120	Pass	
Chromium	%	93			80-120	Pass	
Copper	%	91			80-120	Pass	
Lead	%	91			80-120	Pass	
Mercury	%	95			80-120	Pass	
Nickel	%	90			80-120	Pass	
Silver	%	92			80-120	Pass	
Zinc	%	93			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	S25-Au0030944	NCP	%	74			70-130	Pass	
TRH C10-C14	S25-Au0022827	NCP	%	122			70-130	Pass	
TRH C6-C10	S25-Au0030944	NCP	%	71			70-130	Pass	
TRH >C10-C16	S25-Au0022827	NCP	%	119			70-130	Pass	
Naphthalene	S25-Au0030944	NCP	%	89			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S25-Au0030944	NCP	%	79			70-130	Pass	
Toluene	S25-Au0030944	NCP	%	84			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Ethylbenzene	S25-Au0030944	NCP	%	85			70-130	Pass	
m&p-Xylenes	S25-Au0030944	NCP	%	86			70-130	Pass	
o-Xylene	S25-Au0030944	NCP	%	87			70-130	Pass	
Xylenes - Total*	S25-Au0030944	NCP	%	86			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S25-Au0037206	NCP	%	100			70-130	Pass	
Acenaphthylene	S25-Au0037206	NCP	%	109			70-130	Pass	
Anthracene	S25-Au0037206	NCP	%	101			70-130	Pass	
Benz(a)anthracene	S25-Au0037206	NCP	%	69			70-130	Fail	Q08
Benzo(a)pyrene	S25-Au0037206	NCP	%	68			70-130	Fail	Q08
Benzo(b&j)fluoranthene	S25-Au0037206	NCP	%	37			70-130	Fail	Q08
Benzo(g.h.i)perylene	S25-Au0037206	NCP	%	74			70-130	Pass	
Benzo(k)fluoranthene	S25-Au0037206	NCP	%	69			70-130	Fail	Q08
Chrysene	S25-Au0037206	NCP	%	71			70-130	Pass	
Dibenz(a.h)anthracene	S25-Au0037206	NCP	%	77			70-130	Pass	
Fluoranthene	S25-Au0037206	NCP	%	111			70-130	Pass	
Fluorene	S25-Au0037206	NCP	%	107			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S25-Au0037206	NCP	%	73			70-130	Pass	
Naphthalene	S25-Au0037206	NCP	%	83			70-130	Pass	
Phenanthrene	S25-Au0037206	NCP	%	99			70-130	Pass	
Pyrene	S25-Au0037206	NCP	%	113			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S25-Au0032842	CP	%	95			75-125	Pass	
Cadmium	S25-Au0032842	CP	%	92			75-125	Pass	
Chromium	S25-Au0032842	CP	%	99			75-125	Pass	
Copper	S25-Au0032842	CP	%	98			75-125	Pass	
Lead	S25-Au0032842	CP	%	94			75-125	Pass	
Mercury	S25-Au0032842	CP	%	97			75-125	Pass	
Nickel	S25-Au0032842	CP	%	96			75-125	Pass	
Silver	S25-Au0032842	CP	%	91			75-125	Pass	
Zinc	S25-Au0032842	CP	%	99			75-125	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	S25-Au0030945	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	N25-Au0029121	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	N25-Au0029121	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	N25-Au0029121	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C6-C10	S25-Au0030945	NCP	mg/L	0.03	< 0.02	44	30%	Fail	Q15
TRH >C10-C16	N25-Au0029121	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Naphthalene	S25-Au0030945	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH >C16-C34	N25-Au0029121	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	N25-Au0029121	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S25-Au0030945	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S25-Au0030945	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S25-Au0030945	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S25-Au0030945	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S25-Au0030945	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	S25-Au0030945	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1-Dichloroethene	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1-Trichloroethane	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2-Trichloroethane	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dibromoethane	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichlorobenzene	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloroethane	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloropropane	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.3-Trichloropropane	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.4-Trimethylbenzene	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichlorobenzene	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichloropropane	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3.5-Trimethylbenzene	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.4-Dichlorobenzene	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
2-Butanone (MEK)	S25-Au0026169	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
2-Propanone (Acetone)	S25-Au0026169	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
4-Chlorotoluene	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S25-Au0026169	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Allyl chloride	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromobenzene	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromochloromethane	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromodichloromethane	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromoform	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromomethane	S25-Au0026169	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Carbon disulfide	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Carbon Tetrachloride	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chlorobenzene	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chloroethane	S25-Au0026169	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chloroform	S25-Au0026169	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chloromethane	S25-Au0026169	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
cis-1.2-Dichloroethene	S25-Au0026169	NCP	mg/L	0.005	0.005	1.0	30%	Pass	
cis-1.3-Dichloropropene	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibromochloromethane	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibromomethane	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dichlorodifluoromethane	S25-Au0026169	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Iodomethane	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Isopropyl benzene (Cumene)	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Methylene Chloride	S25-Au0026169	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Styrene	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Tetrachloroethene	S25-Au0026169	NCP	mg/L	0.050	0.053	5.0	30%	Pass	
trans-1.2-Dichloroethene	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
trans-1.3-Dichloropropene	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Trichloroethene	S25-Au0026169	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Trichlorofluoromethane	S25-Au0026169	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Vinyl chloride	S25-Au0026169	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	N25-Au0029124	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	N25-Au0029124	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	N25-Au0029124	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	N25-Au0029124	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	N25-Au0029124	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Benzo(b&j)fluoranthene	N25-Au0029124	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	N25-Au0029124	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	N25-Au0029124	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	N25-Au0029124	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	N25-Au0029124	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	N25-Au0029124	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	N25-Au0029124	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	N25-Au0029124	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	N25-Au0029124	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Phenanthrene	N25-Au0029124	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Pyrene	N25-Au0029124	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	X25-Au0032566	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	X25-Au0032566	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	X25-Au0032566	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper	X25-Au0032566	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead	X25-Au0032566	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	X25-Au0032566	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	X25-Au0032566	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Silver	X25-Au0032566	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Zinc	X25-Au0032566	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	

Comments

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q05	The matrix spike concentration is less than five times the background concentration in the sample - therefore the spike recovery cannot be determined
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:

Adam Bateup	Analytical Services Manager
Luke Holt	Senior Analyst-Inorganic
Mickael Ros	Senior Analyst-Metal
Raymond Siu	Senior Analyst-Volatile
Roopesh Rangarajan	Senior Analyst-Organic



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please click here.

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QUALITY CONTROL REPORT

Work Order	: **ES2526307**	Page	: 1 of 12
Client	: **TETRA TECH COFFEY PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: Ben Everingham	Contact	: Sandy Phan
Address	: LEVEL 19, TOWER B- CITADEL TOWER 799 PACIFIC HIGHWAY CHATSWOOD NSW, AUSTRALIA 2067	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: ----	Telephone	: +61-2-8784 8555
Project	: SYDGE351816	Date Samples Received	: 12-Aug-2025
Order number	: ----	Date Analysis Commenced	: 26-Aug-2025
C-O-C number	: ----	Issue Date	: 29-Aug-2025
Sampler	: Elliot Wood		
Site	:		
Quote number	: EN/000		
No. of samples received	: 5		
No. of samples analysed	: 5		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Ivan Taylor	Analyst	Sydney Inorganics, Smithfield, NSW
John Williams	Lab Technician	Newcastle - Asbestos, Mayfield West, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
= Indicates failed QC
* = The final LOR has been raised due to dilution or other sample specific cause; adjusted LOR is shown in brackets. The duplicate ranges for Acceptable RPD% are applied to the final LOR where applicable.

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 6817536)									
ES2526108-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	185	182	1.4	0% - 20%
		EG005T: Nickel	7440-02-0	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	14	18	23.6	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	14	11	22.5	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	15	17	9.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	12	10	19.8	No Limit
ES2526297-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	11	10	11.6	No Limit
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 6815316)									
ES2526307-001	BH110_0.0-0.1	EA055: Moisture Content	----	0.1 (1.0)*	%	7.8	6.4	20.5	No Limit
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 6817542)									
ES2526108-001	Anonymous	EA055: Moisture Content	----	0.1 (1.0)*	%	7.1	7.2	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 6817542) - continued									
ES2526281-001	Anonymous	EA055: Moisture Content	----	0.1 (1.0)*	%	13.9	15.4	10.8	0% - 50%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 6817535)									
ES2526108-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2526297-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP010: Formaldehyde (QC Lot: 6817539)									
ES2526307-001	BH110_0.0-0.1	EP010: Formaldehyde	50-00-0	2 (1)*	mg/kg	<1	<1	0.0	No Limit
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 6815883)									
ES2526390-001	Anonymous	EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074B: Oxygenated Compounds (QC Lot: 6815883)									
ES2526390-001	Anonymous	EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	0.0	No Limit
EP074C: Sulfonated Compounds (QC Lot: 6815883)									
ES2526390-001	Anonymous	EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074D: Fumigants (QC Lot: 6815883)									
ES2526390-001	Anonymous	EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074E: Halogenated Aliphatic Compounds (QC Lot: 6815883)									
ES2526390-001	Anonymous	EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074E: Halogenated Aliphatic Compounds (QC Lot: 6815883) - continued									
ES2526390-001	Anonymous	EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloromethane	74-87-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Bromomethane	74-83-9	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloroethane	75-00-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5	0.0	No Limit
EP074F: Halogenated Aromatic Compounds (QC Lot: 6815883)									
ES2526390-001	Anonymous	EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074G: Trihalomethanes (QC Lot: 6815883)									
ES2526390-001	Anonymous	EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 6813521)									

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 6813521) - continued									
EW2504232-007	Anonymous	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2526157-004	Anonymous	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 6813521) - continued									
ES2526157-004	Anonymous	EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 6813520)									
EW2504232-007	Anonymous	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2526157-004	Anonymous	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 6815882)									
ES2526390-001	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 6813520)									
EW2504232-007	Anonymous	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2526157-004	Anonymous	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 6815882)									
ES2526390-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP080: BTEXN (QC Lot: 6815882)									
ES2526390-001	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG005(ED093)C: Leachable Metals by ICPAES (QC Lot: 6816660)									
ES2523895-023	Anonymous	EG005C: Lead	7439-92-1	0.1	mg/L	2.1	2.0	0.0	0% - 20%
		EG005C: Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	0.0	No Limit
ES2526307-005	BH109_0-0.1	EG005C: Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	0.0	No Limit
		EG005C: Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	0.0	No Limit

Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 6817536)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	121.1 mg/kg	95.1	88.0	113
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	0.74 mg/kg	76.8	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	19.6 mg/kg	107	68.0	132
EG005T: Copper	7440-50-8	5	mg/kg	<5	52.9 mg/kg	93.8	89.0	111
EG005T: Lead	7439-92-1	5	mg/kg	<5	60.8 mg/kg	102	82.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.3 mg/kg	95.0	80.0	120
EG005T: Silver	7440-22-4	2	mg/kg	<2	2.3 mg/kg	123	42.0	158
EG005T: Zinc	7440-66-6	5	mg/kg	<5	139.3 mg/kg	87.6	66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 6817535)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.087 mg/kg	83.0	70.0	125
EP010: Formaldehyde (QCLot: 6817539)								
EP010: Formaldehyde	50-00-0	2	mg/kg	<2	25 mg/kg	100	74.0	116
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 6815883)								
EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	1 mg/kg	93.6	67.0	113
EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	1 mg/kg	94.7	65.0	117
EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	1 mg/kg	92.4	66.0	122
EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	1 mg/kg	93.8	68.0	118
EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	1 mg/kg	93.0	69.0	119
EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	1 mg/kg	93.3	69.0	117
EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	1 mg/kg	93.1	69.0	115
EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	1 mg/kg	93.8	66.0	118
EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	1 mg/kg	92.8	59.0	125
EP074B: Oxygenated Compounds (QCLot: 6815883)								
EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	10 mg/kg	92.3	29.6	156
EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	10 mg/kg	91.8	58.0	136
EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	10 mg/kg	96.0	62.0	132
EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	10 mg/kg	91.4	54.0	136
EP074C: Sulfonated Compounds (QCLot: 6815883)								
EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	1 mg/kg	89.7	54.0	126
EP074D: Fumigants (QCLot: 6815883)								

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP074D: Fumigants (QCLot: 6815883) - continued								
EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	1 mg/kg	96.7	60.0	126
EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	1 mg/kg	96.8	68.0	124
EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	1 mg/kg	95.0	51.0	119
EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	1 mg/kg	94.4	52.0	114
EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	1 mg/kg	96.4	63.0	115
EP074E: Halogenated Aliphatic Compounds (QCLot: 6815883)								
EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	10 mg/kg	110	30.0	148
EP074: Chloromethane	74-87-3	5	mg/kg	<5	10 mg/kg	113	41.0	141
EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	10 mg/kg	104	43.0	147
EP074: Bromomethane	74-83-9	5	mg/kg	<5	10 mg/kg	105	47.0	141
EP074: Chloroethane	75-00-3	5	mg/kg	<5	10 mg/kg	101	49.0	143
EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	10 mg/kg	101	49.0	135
EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	1 mg/kg	97.4	54.0	126
EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	1 mg/kg	98.8	43.0	129
EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	1 mg/kg	96.6	64.0	120
EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	1 mg/kg	95.7	67.0	125
EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	1 mg/kg	96.3	69.0	121
EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	1 mg/kg	95.9	65.0	117
EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	1 mg/kg	95.8	65.0	123
EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	1 mg/kg	93.0	59.0	125
EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	1 mg/kg	97.8	65.0	125
EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	1 mg/kg	95.3	70.0	118
EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	1 mg/kg	97.6	68.0	118
EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	1 mg/kg	98.4	64.0	126
EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	1 mg/kg	96.3	68.0	122
EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	1 mg/kg	96.3	67.0	143
EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	1 mg/kg	94.4	62.0	122
EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	1 mg/kg	99.3	54.0	128
EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	1 mg/kg	96.8	55.0	129
EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	1 mg/kg	96.4	65.0	121
EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	1 mg/kg	97.6	61.0	125
EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	1 mg/kg	89.4	19.8	134
EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	1 mg/kg	94.5	53.0	129
EP074: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	1 mg/kg	91.7	50.0	128

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
					Spike	Spike Recovery (%)	Acceptable Limits (%)
				Result	Concentration	LCS	Low	High
EP074F: Halogenated Aromatic Compounds (QCLot: 6815883)								
EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	1 mg/kg	95.4	68.0	116
EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	1 mg/kg	94.6	70.0	114
EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	1 mg/kg	94.8	68.0	122
EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	1 mg/kg	93.0	67.0	123
EP074: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	1 mg/kg	93.9	70.0	116
EP074: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	1 mg/kg	94.8	67.0	117
EP074: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	1 mg/kg	95.0	70.0	114
EP074: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	1 mg/kg	93.5	48.0	122
EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	1 mg/kg	95.8	52.0	122
EP074G: Trihalomethanes (QCLot: 6815883)								
EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	1 mg/kg	96.8	66.0	124
EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	1 mg/kg	93.3	61.0	121
EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	1 mg/kg	89.1	63.0	121
EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	1 mg/kg	89.1	60.0	126
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 6813521)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	6 mg/kg	95.6	77.0	125
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	6 mg/kg	93.8	72.0	124
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	6 mg/kg	92.6	73.0	127
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	6 mg/kg	93.4	72.0	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	6 mg/kg	92.9	75.0	127
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	6 mg/kg	91.1	77.0	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	6 mg/kg	91.1	73.0	127
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	6 mg/kg	89.1	74.0	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	6 mg/kg	94.7	69.0	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	6 mg/kg	95.0	75.0	127
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	6 mg/kg	90.2	68.0	116
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	6 mg/kg	91.0	74.0	126
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	6 mg/kg	95.5	70.0	126
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	6 mg/kg	85.8	61.0	121
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	6 mg/kg	75.3	62.0	118
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	6 mg/kg	88.0	63.0	121
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6813520)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	286 mg/kg	110	75.0	129

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6813520) - continued								
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	1724 mg/kg	99.3	77.0	131
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	1208 mg/kg	98.7	71.0	129
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6815882)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	83.7	72.2	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6813520)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	464 mg/kg	113	77.0	125
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	2448 mg/kg	104	74.0	138
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	538 mg/kg	90.6	63.0	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6815882)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	82.5	72.4	133
EP080: BTEXN (QCLot: 6815882)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	99.1	76.0	124
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	90.7	78.5	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	97.3	77.4	121
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	96.7	78.2	121
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	95.5	81.3	121
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	97.2	78.8	122

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG005(ED093)C: Leachable Metals by ICPAES (QCLot: 6816660)								
EG005C: Lead	7439-92-1	0.1	mg/L	<0.1	0.1 mg/L	89.8	80.0	118
EG005C: Nickel	7440-02-0	0.1	mg/L	<0.1	0.1 mg/L	110	83.0	115

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 6817536)							
ES2526108-001	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	80.6	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	98.6	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	128	68.0	132

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*Concentration*	*MS*	*Low*	*High*
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 6817536) - continued							
ES2526108-001	Anonymous	EG005T: Copper	7440-50-8	250 mg/kg	97.1	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	97.6	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	98.5	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	95.0	66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 6817535)							
ES2526108-001	Anonymous	EG035T: Mercury	7439-97-6	5 mg/kg	88.9	70.0	130
EP010: Formaldehyde (QCLot: 6817539)							
ES2526307-001	BH110_0.0-0.1	EP010: Formaldehyde	50-00-0	12.5 mg/kg	98.8	70.0	130
EP074E: Halogenated Aliphatic Compounds (QCLot: 6815883)							
ES2526390-001	Anonymous	EP074: 1.1-Dichloroethene	75-35-4	2.5 mg/kg	109	70.0	130
		EP074: Trichloroethene	79-01-6	2.5 mg/kg	85.4	70.0	130
EP074F: Halogenated Aromatic Compounds (QCLot: 6815883)							
ES2526390-001	Anonymous	EP074: Chlorobenzene	108-90-7	2.5 mg/kg	103	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 6813521)							
ES2526157-004	Anonymous	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	87.1	70.0	130
		EP075(SIM): Pyrene	129-00-0	10 mg/kg	87.7	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6813520)							
ES2526157-004	Anonymous	EP071: C10 - C14 Fraction	----	480 mg/kg	126	73.0	137
		EP071: C15 - C28 Fraction	----	3100 mg/kg	108	53.0	131
		EP071: C29 - C36 Fraction	----	2060 mg/kg	115	52.0	132
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6815882)							
ES2526390-001	Anonymous	EP080: C6 - C9 Fraction	----	32.5 mg/kg	70.2	60.4	142
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6813520)							
ES2526157-004	Anonymous	EP071: >C10 - C16 Fraction	----	860 mg/kg	117	73.0	137
		EP071: >C16 - C34 Fraction	----	4320 mg/kg	117	53.0	131
		EP071: >C34 - C40 Fraction	----	890 mg/kg	109	52.0	132
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6815882)							
ES2526390-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	67.0	61.1	142
EP080: BTEXN (QCLot: 6815882)							
ES2526390-001	Anonymous	EP080: Benzene	71-43-2	2.5 mg/kg	82.1	62.1	122
		EP080: Toluene	108-88-3	2.5 mg/kg	78.6	66.6	119
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	85.5	67.4	123
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	83.6	66.4	121
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	84.6	70.7	121
		EP080: Naphthalene	91-20-3	2.5 mg/kg	82.5	61.1	115

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*Concentration*	*MS*	*Low*	*High*
EG005(ED093)C: Leachable Metals by ICPAES (QCLot: 6816660)							
ES2523895-024	Anonymous	EG005C: Lead	7439-92-1	1 mg/L	91.8	70.0	130
		EG005C: Nickel	7440-02-0	1 mg/L	101	70.0	130

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **ES2526307**	Page	: 1 of 8
Client	: **TETRA TECH COFFEY PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: Ben Everingham	Telephone	: +61-2-8784 8555
Project	: SYDGE351816	Date Samples Received	: 12-Aug-2025
Site	:	Issue Date	: 29-Aug-2025
Sampler	: Elliot Wood	No. of samples received	: 5
Order number	: ----	No. of samples analysed	: 5

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **For all regular sample matrices, where applicable to the methodology, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **Analysis Holding Time Outliers exist - please see following pages for full details.**

Outliers : Frequency of Quality Control Samples

- **NO Quality Control Sample Frequency Outliers exist.**

Outliers : Analysis Holding Time Compliance

Matrix: **SOIL**

Method / Container / Client Sample ID(s)	Extraction / Preparation			Analysis		
	Date extracted	Due for extraction	Days overdue	Date analysed	Due for analysis	Days overdue
EA055: Moisture Content (Dried @ 105-110°C)						
Soil Glass Jar - Unpreserved						
BH110_0.0-0.1	----	----	----	26-Aug-2025	25-Aug-2025	1
Soil Glass Jar - Unpreserved						
BH110_0.3-0.4	----	----	----	27-Aug-2025	25-Aug-2025	2
EP074A: Monocyclic Aromatic Hydrocarbons						
Soil Glass Jar - Unpreserved						
BH110_0.0-0.1, BH110_0.3-0.4	27-Aug-2025	18-Aug-2025	9	27-Aug-2025	18-Aug-2025	9
EP074B: Oxygenated Compounds						
Soil Glass Jar - Unpreserved						
BH110_0.0-0.1, BH110_0.3-0.4	27-Aug-2025	18-Aug-2025	9	27-Aug-2025	18-Aug-2025	9
EP074C: Sulfonated Compounds						
Soil Glass Jar - Unpreserved						
BH110_0.0-0.1, BH110_0.3-0.4	27-Aug-2025	18-Aug-2025	9	27-Aug-2025	18-Aug-2025	9
EP074D: Fumigants						
Soil Glass Jar - Unpreserved						
BH110_0.0-0.1, BH110_0.3-0.4	27-Aug-2025	18-Aug-2025	9	27-Aug-2025	18-Aug-2025	9
EP074E: Halogenated Aliphatic Compounds						
Soil Glass Jar - Unpreserved						
BH110_0.0-0.1, BH110_0.3-0.4	27-Aug-2025	18-Aug-2025	9	27-Aug-2025	18-Aug-2025	9
EP074F: Halogenated Aromatic Compounds						
Soil Glass Jar - Unpreserved						
BH110_0.0-0.1, BH110_0.3-0.4	27-Aug-2025	18-Aug-2025	9	27-Aug-2025	18-Aug-2025	9
EP074G: Trihalomethanes						
Soil Glass Jar - Unpreserved						
BH110_0.0-0.1, BH110_0.3-0.4	27-Aug-2025	18-Aug-2025	9	27-Aug-2025	18-Aug-2025	9
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons						
Soil Glass Jar - Unpreserved						
BH110_0.0-0.1, BH110_0.3-0.4	27-Aug-2025	25-Aug-2025	2	----	----	----
EP080/071: Total Petroleum Hydrocarbons						
Soil Glass Jar - Unpreserved						
BH110_0.0-0.1, BH110_0.3-0.4	27-Aug-2025	25-Aug-2025	2	27-Aug-2025	25-Aug-2025	2
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions						
Soil Glass Jar - Unpreserved						
BH110_0.0-0.1, BH110_0.3-0.4	27-Aug-2025	25-Aug-2025	2	27-Aug-2025	25-Aug-2025	2
EP080: BTEXN						
Soil Glass Jar - Unpreserved						
BH110_0.0-0.1, BH110_0.3-0.4	27-Aug-2025	25-Aug-2025	2	27-Aug-2025	25-Aug-2025	2

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content (Dried @ 105-110°C)							
Soil Glass Jar - Unpreserved (EA055)							
BH110_0.0-0.1	**11-Aug-2025**	**----**	----	----	**26-Aug-2025**	25-Aug-2025	×
Soil Glass Jar - Unpreserved (EA055)							
BH110_0.3-0.4	**11-Aug-2025**	**----**	----	----	**27-Aug-2025**	25-Aug-2025	×
EA200: AS 4964 - 2004 Identification of Asbestos in Soils							
Snap Lock Bag - Friable Asbestos/PSD Bag (EA200)							
BH110_0.0-0.1, BH110_0.3-0.4	**11-Aug-2025**	**----**	----	----	**27-Aug-2025**	07-Feb-2026	✓
EG005(ED093)T: Total Metals by ICP-AES							
Soil Glass Jar - Unpreserved (EG005T)							
BH110_0.0-0.1, BH110_0.3-0.4	**11-Aug-2025**	**27-Aug-2025**	07-Feb-2026	✓	**28-Aug-2025**	07-Feb-2026	✓
EG035T: Total Recoverable Mercury by FIMS							
Soil Glass Jar - Unpreserved (EG035T)							
BH110_0.0-0.1, BH110_0.3-0.4	**11-Aug-2025**	**27-Aug-2025**	08-Sep-2025	✓	**29-Aug-2025**	08-Sep-2025	✓
EN33: TCLP Leach - Inorganics/PFAS (Plastic Vessel)							
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN33a-P)							
BH103-0.5-0.6, BH106_0.5-0.6, BH109_0-0.1	**11-Aug-2025**	**26-Aug-2025**	07-Feb-2026	✓	**----**	----	----
EP010: Formaldehyde							
Soil Glass Jar - Unpreserved (EP010)							
BH110_0.0-0.1, BH110_0.3-0.4	**11-Aug-2025**	**27-Aug-2025**	07-Feb-2026	✓	**28-Aug-2025**	07-Feb-2026	✓
EP074A: Monocyclic Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP074)							
BH110_0.0-0.1, BH110_0.3-0.4	**11-Aug-2025**	**27-Aug-2025**	18-Aug-2025	×	**27-Aug-2025**	18-Aug-2025	×
EP074B: Oxygenated Compounds							
Soil Glass Jar - Unpreserved (EP074)							
BH110_0.0-0.1, BH110_0.3-0.4	**11-Aug-2025**	**27-Aug-2025**	18-Aug-2025	×	**27-Aug-2025**	18-Aug-2025	×
EP074C: Sulfonated Compounds							
Soil Glass Jar - Unpreserved (EP074)							
BH110_0.0-0.1, BH110_0.3-0.4	**11-Aug-2025**	**27-Aug-2025**	18-Aug-2025	×	**27-Aug-2025**	18-Aug-2025	×
EP074D: Fumigants							
Soil Glass Jar - Unpreserved (EP074)							
BH110_0.0-0.1, BH110_0.3-0.4	**11-Aug-2025**	**27-Aug-2025**	18-Aug-2025	×	**27-Aug-2025**	18-Aug-2025	×

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP074E: Halogenated Aliphatic Compounds							
Soil Glass Jar - Unpreserved (EP074) BH110_0.0-0.1, BH110_0.3-0.4	**11-Aug-2025**	**27-Aug-2025**	18-Aug-2025	×	**27-Aug-2025**	18-Aug-2025	×
EP074F: Halogenated Aromatic Compounds							
Soil Glass Jar - Unpreserved (EP074) BH110_0.0-0.1, BH110_0.3-0.4	**11-Aug-2025**	**27-Aug-2025**	18-Aug-2025	×	**27-Aug-2025**	18-Aug-2025	×
EP074G: Trihalomethanes							
Soil Glass Jar - Unpreserved (EP074) BH110_0.0-0.1, BH110_0.3-0.4	**11-Aug-2025**	**27-Aug-2025**	18-Aug-2025	×	**27-Aug-2025**	18-Aug-2025	×
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP075(SIM)) BH110_0.0-0.1, BH110_0.3-0.4	**11-Aug-2025**	**27-Aug-2025**	25-Aug-2025	×	**27-Aug-2025**	06-Oct-2025	✓
EP080/071: Total Petroleum Hydrocarbons							
Soil Glass Jar - Unpreserved (EP071) BH110_0.0-0.1	**11-Aug-2025**	**27-Aug-2025**	25-Aug-2025	×	**27-Aug-2025**	06-Oct-2025	✓
Soil Glass Jar - Unpreserved (EP080) BH110_0.0-0.1	**11-Aug-2025**	**27-Aug-2025**	25-Aug-2025	×	**27-Aug-2025**	25-Aug-2025	×
Soil Glass Jar - Unpreserved (EP071) BH110_0.3-0.4	**11-Aug-2025**	**27-Aug-2025**	25-Aug-2025	×	**27-Aug-2025**	06-Oct-2025	✓
Soil Glass Jar - Unpreserved (EP080) BH110_0.3-0.4	**11-Aug-2025**	**27-Aug-2025**	25-Aug-2025	×	**27-Aug-2025**	25-Aug-2025	×
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Soil Glass Jar - Unpreserved (EP071) BH110_0.0-0.1	**11-Aug-2025**	**27-Aug-2025**	25-Aug-2025	×	**27-Aug-2025**	06-Oct-2025	✓
Soil Glass Jar - Unpreserved (EP080) BH110_0.0-0.1	**11-Aug-2025**	**27-Aug-2025**	25-Aug-2025	×	**27-Aug-2025**	25-Aug-2025	×
Soil Glass Jar - Unpreserved (EP071) BH110_0.3-0.4	**11-Aug-2025**	**27-Aug-2025**	25-Aug-2025	×	**27-Aug-2025**	06-Oct-2025	✓
Soil Glass Jar - Unpreserved (EP080) BH110_0.3-0.4	**11-Aug-2025**	**27-Aug-2025**	25-Aug-2025	×	**27-Aug-2025**	25-Aug-2025	×
EP080: BTEXN							
Soil Glass Jar - Unpreserved (EP080) BH110_0.0-0.1, BH110_0.3-0.4	**11-Aug-2025**	**27-Aug-2025**	25-Aug-2025	×	**27-Aug-2025**	25-Aug-2025	×

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EG005(ED093)C: Leachable Metals by ICPAES							
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG005C) BH103-0.5-0.6, BH106_0.5-0.6, BH109_0-0.1	**26-Aug-2025**	**27-Aug-2025**	22-Feb-2026	✓	**27-Aug-2025**	22-Feb-2026	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Formaldehyde	EP010	1	2	50.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Moisture Content	EA055	3	21	14.29	10.00	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	2	14	14.29	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	14	14.29	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	4	25.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	4	25.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Formaldehyde	EP010	1	2	50.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	1	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	4	25.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	4	25.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Formaldehyde	EP010	1	2	50.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	1	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	4	25.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	4	25.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Formaldehyde	EP010	1	2	50.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	1	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	4	25.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	4	25.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	Evaluation	

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Leachable Metals by ICPAES	EG005C	2	10	**20.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Leachable Metals by ICPAES	EG005C	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Leachable Metals by ICPAES	EG005C	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Leachable Metals by ICPAES	EG005C	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Asbestos Identification in Soils	EA200	SOIL	AS 4964 Method for the qualitative identification of asbestos in bulk samples Analysis by Polarised Light Microscopy including dispersion staining
Leachable Metals by ICPAES	EG005C	SOIL	In house: referenced to APHA 3120; USEPA SW 846 - 6010: The ICPAES technique ionises leachate sample atoms emitting a characteristic spectrum. This spectrum is then compared against matrix matched standards for quantification. This method is compliant with NEPM Schedule B(3).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
Formaldehyde	EP010	SOIL	In house: Referenced to ASTM D 6303-98. Determined on 1:5 soil / water extracts by colourimetry using NASH reagent. The Hantszch reaction method is based on the reaction of acetylacetone with formaldehyde in the presence of excess ammonium acetate to form a coloured compound.
TRH - Semivolatile Fraction	EP071	SOIL	In house: Referenced to USEPA SW 846 - 8015 Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40. Compliant with NEPM Schedule B(3).
Volatile Organic Compounds	EP074	SOIL	In house: Referenced to USEPA SW 846 - 8260 Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3).
PAH/Phenols (SIM)	EP075(SIM)	SOIL	In house: Referenced to USEPA SW 846 - 8270. Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	SOIL	In house: Referenced to USEPA SW 846 - 8260. Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. Compliant with NEPM Schedule B(3) amended.

Preparation Methods	Method	Matrix	Method Descriptions
Digestion for Total Recoverable Metals in TCLP Leachate	EN25C	SOIL	In house: Referenced to USEPA SW846-3005. Method 3005 is a Nitric/Hydrochloric acid digestion procedure used to prepare surface and ground water samples for analysis by ICPAES or ICPMS. This method is compliant with NEPM Schedule B(3)

Preparation Methods	*Method*	*Matrix*	*Method Descriptions*
TCLP for Non & Semivolatile Analytes - Plastic Leaching Vessel	EN33a-P	SOIL	In house QWI-EN/33 referenced to USEPA SW846-1311: The TCLP procedure is designed to determine the mobility of both organic and inorganic analytes present in wastes. The standard TCLP leach is for non-volatile and Semivolatile test parameters.
1:5 solid / water leach for soluble analytes	EN34	SOIL	10 g of soil is mixed with 50 mL of reagent grade water and tumbled end over end for 1 hour. Water soluble salts are leached from the soil by the continuous suspension. Samples are settled and the water filtered off for analysis.
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Methanolic Extraction of Soils for Purge and Trap	ORG16	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.

REBATCH REQUEST

Workorder / Client code / Project:	ALS Workorder ES2524646, Client COFENV, Project SYDGE351816		**CS Contact:** Sandy Phan (Sydney)
Project Manager:	***Please include this rebatch PM plus all report recipients as per original workorder***		Additional Information:
Date samples rec'd:	12/08/2025 11:25		
Date Instructions rec'd:	25/08/2025 15:00		
Rebatch due date:	Monday, 1 September 2025	FTAT approved?	
Due date surcharge:	**N/A**		

	Sample information							Analysis										Shortest Holding time expiry
New Lab ID	Client ID	Sampling Date / Time	Previous Workorder Reference	Previous ALS ID	Tray Number(s)	Container	Managed Moisture	TRH/BTEXN/PAH	VOC (incl VOA and VHC)	8 metals + Silver	Formaldehyde	Asbestos ID	TCLP Lead	TCLP Nickel				
1	BH110_0.0-0.1	11/08/2025 0:00	ES2524646	41	S-1239, S-1240, S-1241, EN			X	X	X	X	X						
2	BH110_0.3-0.4	11/08/2025 0:00		42				X	X	X	X	X						
3	BH103-0.5-0.6	0/01/1900 0:00		17		Soil glass jar							X					
4	BH106_0.5-0.6	0/01/1900 0:00		23		Soil glass jar							X					
5	BH109_0-0.1	0/01/1900 0:00		28		Soil glass jar								X				
							TOTAL											

Environmental Division
Sydney
Work Order Reference
ES2526307

Telephone : +61-2-8784 8555

Subcon / Forward Lab / Split WO:
Newcastle
Lab / Analysis: Asbestos
Relinquished Date:
WO: ES2526307

Rec: Melanie
26/8/25 9am

CERTIFICATE OF ANALYSIS

Work Order	: **ES2526307**	Page	: 1 of 11
Client	: **TETRA TECH COFFEY PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: Ben Everingham	Contact	: Sandy Phan
Address	: LEVEL 19, TOWER B- CITADEL TOWER 799 PACIFIC HIGHWAY CHATSWOOD NSW, AUSTRALIA 2067	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: ----	Telephone	: +61-2-8784 8555
Project	: SYDGE351816	Date Samples Received	: 12-Aug-2025 11:25
Order number	: ----	Date Analysis Commenced	: 26-Aug-2025
C-O-C number	: ----	Issue Date	: 29-Aug-2025 18:04
Sampler	: Elliot Wood		
Site	:		
Quote number	: EN/000		
No. of samples received	: 5		
No. of samples analysed	: 5		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Descriptive Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Ivan Taylor	Analyst	Sydney Inorganics, Smithfield, NSW
John Williams	Lab Technician	Newcastle - Asbestos, Mayfield West, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP074: Where reported, Total Trihalomethanes is the sum of the reported concentrations of all Trihalomethanes at or above the LOR.
- EP074: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP074: Where reported, Sum of chlorinated hydrocarbons includes carbon tetrachloride, chlorobenzene, chloroform, 1,2-dichlorobenzene, 1,4-dichlorobenzene, 1,2-dichloroethane, 1,1-dichloroethene, cis-1,2-dichlorothene, trans-1,2-dichlorothene, 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, 1,2,4-trichlorobenzene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, trichloroethene, vinyl chloride, hexachlorobutadiene and methylene chloride.
- EP074: Where reported, Total Trimethylbenzenes is the sum of the reported concentrations of 1.2.3-Trimethylbenzene, 1.2.4-Trimethylbenzene and 1.3.5-Trimethylbenzene at or above the LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.
- EP071: Results of sample BH110_0.0-0.1 have been confirmed by re-extraction and re-analysis.
- EG035: Positive Mercury result ES2526307 #1 has been confirmed by reanalysis.
- EP080/EP074: Samples not received in a suitable time frame to conduct the analysis within the recommended holding time.
- This is a rebatch of WO ES2524646.
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200 'Trace' - Asbestos fibres ("Free Fibres") detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- EA200 Legend
- EA200 'Ch' Chrysotile (white asbestos)
- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.
- EA200: For samples larger than 30g, the <2mm fraction may be sub-sampled prior to trace analysis as outlined in ISO23909:2008(E) Sect 6.3.2-2
- EA200: 'Yes' - Asbestos detected by polarised light microscopy including dispersion staining.

- EA200: 'No*' - No asbestos found, at the reporting limit of 0.1g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at concentrations estimated to be below 0.1g/kg.
- EA200: 'No' - No asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining.
- EN33: Where leachable PFAS analysis is requested, centrifugation rather than pressure filtration is used as the default approach for removal of particulates, in line with AS 4439.3.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BH110_0.0-0.1	BH110_0.3-0.4	BH103-0.5-0.6	BH106_0.5-0.6	BH109_0-0.1
				Sampling date / time	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00
Compound	CAS Number	LOR	Unit		ES2526307-001	ES2526307-002	ES2526307-003	ES2526307-004	ES2526307-005
					Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%		7.8	6.8	----	----	----
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg		No	No	----	----	----
Asbestos (Trace)	1332-21-4	-	-		No	No	----	----	----
Asbestos Type	1332-21-4	-	--		-	-	----	----	----
Synthetic Mineral Fibre	----	-	--		No	No	----	----	----
Organic Fibre	----	-	--		No	No	----	----	----
Sample weight (dry)	----	0.01	g		409	419	----	----	----
APPROVED IDENTIFIER:	----	-	--		J. WILLIAMS	J. WILLIAMS	----	----	----
EG005(ED093)T: Total Metals by ICP-AES									
Silver	7440-22-4	2	mg/kg		3	<2	----	----	----
Arsenic	7440-38-2	5	mg/kg		<5	<5	----	----	----
Cadmium	7440-43-9	1	mg/kg		<1	<1	----	----	----
Chromium	7440-47-3	2	mg/kg		40	11	----	----	----
Copper	7440-50-8	5	mg/kg		28	6	----	----	----
Lead	7439-92-1	5	mg/kg		157	40	----	----	----
Nickel	7440-02-0	2	mg/kg		41	4	----	----	----
Zinc	7440-66-6	5	mg/kg		92	32	----	----	----
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg		0.1	<0.1	----	----	----
EN33: TCLP Leach - Inorganics/PFAS (Plastic Vessel)									
Initial pH	----	0.1	pH Unit		----	----	7.7	8.2	9.5
After HCl pH	----	0.1	pH Unit		----	----	1.8	1.7	3.0
Extraction Fluid Number	----	1	-		----	----	1	1	1
Final pH	----	0.1	pH Unit		----	----	5.2	5.1	6.0
EP010: Formaldehyde									
Formaldehyde	50-00-0	1	mg/kg		<1	<1	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BH110_0.0-0.1	BH110_0.3-0.4	BH103-0.5-0.6	BH106_0.5-0.6	BH109_0-0.1
				Sampling date / time	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00
Compound	CAS Number	LOR	Unit		ES2526307-001	ES2526307-002	ES2526307-003	ES2526307-004	ES2526307-005
					Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons									
Styrene	100-42-5	0.5	mg/kg		<0.5	<0.5	----	----	----
Isopropylbenzene	98-82-8	0.5	mg/kg		<0.5	<0.5	----	----	----
n-Propylbenzene	103-65-1	0.5	mg/kg		<0.5	<0.5	----	----	----
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg		<0.5	<0.5	----	----	----
sec-Butylbenzene	135-98-8	0.5	mg/kg		<0.5	<0.5	----	----	----
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg		<0.5	<0.5	----	----	----
tert-Butylbenzene	98-06-6	0.5	mg/kg		<0.5	<0.5	----	----	----
p-Isopropyltoluene	99-87-6	0.5	mg/kg		<0.5	<0.5	----	----	----
n-Butylbenzene	104-51-8	0.5	mg/kg		<0.5	<0.5	----	----	----
EP074B: Oxygenated Compounds									
Vinyl Acetate	108-05-4	5	mg/kg		<5	<5	----	----	----
2-Butanone (MEK)	78-93-3	5	mg/kg		<5	<5	----	----	----
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg		<5	<5	----	----	----
2-Hexanone (MBK)	591-78-6	5	mg/kg		<5	<5	----	----	----
EP074C: Sulfonated Compounds									
Carbon disulfide	75-15-0	0.5	mg/kg		<0.5	<0.5	----	----	----
EP074D: Fumigants									
2.2-Dichloropropane	594-20-7	0.5	mg/kg		<0.5	<0.5	----	----	----
1.2-Dichloropropane	78-87-5	0.5	mg/kg		<0.5	<0.5	----	----	----
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg		<0.5	<0.5	----	----	----
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg		<0.5	<0.5	----	----	----
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg		<0.5	<0.5	----	----	----
EP074E: Halogenated Aliphatic Compounds									
Dichlorodifluoromethane	75-71-8	5	mg/kg		<5	<5	----	----	----
Chloromethane	74-87-3	5	mg/kg		<5	<5	----	----	----
Vinyl chloride	75-01-4	5	mg/kg		<5	<5	----	----	----
Bromomethane	74-83-9	5	mg/kg		<5	<5	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BH110_0.0-0.1	BH110_0.3-0.4	BH103-0.5-0.6	BH106_0.5-0.6	BH109_0-0.1
				Sampling date / time	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00
Compound	CAS Number	LOR	Unit		ES2526307-001	ES2526307-002	ES2526307-003	ES2526307-004	ES2526307-005
					Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued									
Chloroethane	75-00-3	5	mg/kg		<5	<5	----	----	----
Trichlorofluoromethane	75-69-4	5	mg/kg		<5	<5	----	----	----
1.1-Dichloroethene	75-35-4	0.5	mg/kg		<0.5	<0.5	----	----	----
Iodomethane	74-88-4	0.5	mg/kg		<0.5	<0.5	----	----	----
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg		<0.5	<0.5	----	----	----
1.1-Dichloroethane	75-34-3	0.5	mg/kg		<0.5	<0.5	----	----	----
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg		<0.5	<0.5	----	----	----
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg		<0.5	<0.5	----	----	----
1.1-Dichloropropylene	563-58-6	0.5	mg/kg		<0.5	<0.5	----	----	----
Carbon Tetrachloride	56-23-5	0.5	mg/kg		<0.5	<0.5	----	----	----
1.2-Dichloroethane	107-06-2	0.5	mg/kg		<0.5	<0.5	----	----	----
Trichloroethene	79-01-6	0.5	mg/kg		<0.5	<0.5	----	----	----
Dibromomethane	74-95-3	0.5	mg/kg		<0.5	<0.5	----	----	----
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg		<0.5	<0.5	----	----	----
1.3-Dichloropropane	142-28-9	0.5	mg/kg		<0.5	<0.5	----	----	----
Tetrachloroethene	127-18-4	0.5	mg/kg		<0.5	<0.5	----	----	----
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg		<0.5	<0.5	----	----	----
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg		<0.5	<0.5	----	----	----
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg		<0.5	<0.5	----	----	----
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg		<0.5	<0.5	----	----	----
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg		<0.5	<0.5	----	----	----
Pentachloroethane	76-01-7	0.5	mg/kg		<0.5	<0.5	----	----	----
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg		<0.5	<0.5	----	----	----
Hexachlorobutadiene	87-68-3	0.5	mg/kg		<0.5	<0.5	----	----	----
EP074F: Halogenated Aromatic Compounds									
Chlorobenzene	108-90-7	0.5	mg/kg		<0.5	<0.5	----	----	----
Bromobenzene	108-86-1	0.5	mg/kg		<0.5	<0.5	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BH110_0.0-0.1	BH110_0.3-0.4	BH103-0.5-0.6	BH106_0.5-0.6	BH109_0-0.1
				Sampling date / time	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00
Compound	CAS Number	LOR	Unit		ES2526307-001	ES2526307-002	ES2526307-003	ES2526307-004	ES2526307-005
					Result	Result	Result	Result	Result
EP074F: Halogenated Aromatic Compounds - Continued									
2-Chlorotoluene	95-49-8	0.5	mg/kg		<0.5	<0.5	----	----	----
4-Chlorotoluene	106-43-4	0.5	mg/kg		<0.5	<0.5	----	----	----
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg		<0.5	<0.5	----	----	----
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg		<0.5	<0.5	----	----	----
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg		<0.5	<0.5	----	----	----
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg		<0.5	<0.5	----	----	----
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg		<0.5	<0.5	----	----	----
EP074G: Trihalomethanes									
Chloroform	67-66-3	0.5	mg/kg		<0.5	<0.5	----	----	----
Bromodichloromethane	75-27-4	0.5	mg/kg		<0.5	<0.5	----	----	----
Dibromochloromethane	124-48-1	0.5	mg/kg		<0.5	<0.5	----	----	----
Bromoform	75-25-2	0.5	mg/kg		<0.5	<0.5	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		<0.5	<0.5	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg		<0.5	<0.5	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	<0.5	----	----	----
Fluorene	86-73-7	0.5	mg/kg		<0.5	<0.5	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	<0.5	----	----	----
Anthracene	120-12-7	0.5	mg/kg		<0.5	<0.5	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg		**0.9**	<0.5	----	----	----
Pyrene	129-00-0	0.5	mg/kg		**0.9**	<0.5	----	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg		**0.5**	<0.5	----	----	----
Chrysene	218-01-9	0.5	mg/kg		**0.6**	<0.5	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		**0.8**	<0.5	----	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		<0.5	<0.5	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		**0.7**	<0.5	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	<0.5	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BH110_0.0-0.1	BH110_0.3-0.4	BH103-0.5-0.6	BH106_0.5-0.6	BH109_0-0.1
				Sampling date / time	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00
Compound	CAS Number	LOR	Unit		ES2526307-001	ES2526307-002	ES2526307-003	ES2526307-004	ES2526307-005
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		0.7	<0.5	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		5.1	<0.5	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		0.8	<0.5	----	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		1.1	0.6	----	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		1.4	1.2	----	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	<10	----	----	----
C10 - C14 Fraction	----	50	mg/kg		<50	<50	----	----	----
C15 - C28 Fraction	----	100	mg/kg		<100	<100	----	----	----
C29 - C36 Fraction	----	100	mg/kg		<100	<100	----	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg		<50	<50	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	----	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	<10	----	----	----
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	----	----	----
>C16 - C34 Fraction	----	100	mg/kg		120	<100	----	----	----
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	----	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		120	<50	----	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	----	----	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	----	----	----
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	----	----	----
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	----	----	----
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BH110_0.0-0.1	BH110_0.3-0.4	BH103-0.5-0.6	BH106_0.5-0.6	BH109_0-0.1
				Sampling date / time	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00
Compound	CAS Number	LOR	Unit		ES2526307-001	ES2526307-002	ES2526307-003	ES2526307-004	ES2526307-005
					Result	Result	Result	Result	Result
EP080: BTEXN - Continued									
^ **Sum of BTEX**	----	0.2	mg/kg		<0.2	<0.2	----	----	----
^ **Total Xylenes**	----	0.5	mg/kg		<0.5	<0.5	----	----	----
Naphthalene	91-20-3	1	mg/kg		<1	<1	----	----	----
EP074S: VOC Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.5	%		**87.7**	**79.7**	----	----	----
Toluene-D8	2037-26-5	0.5	%		**98.6**	**104**	----	----	----
4-Bromofluorobenzene	460-00-4	0.5	%		**92.1**	**94.3**	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		**97.6**	**96.1**	----	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%		**96.3**	**97.5**	----	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%		**68.3**	**73.4**	----	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		**89.2**	**92.2**	----	----	----
Anthracene-d10	1719-06-8	0.5	%		**83.5**	**87.0**	----	----	----
4-Terphenyl-d14	1718-51-0	0.5	%		**99.6**	**106**	----	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		**93.8**	**98.8**	----	----	----
Toluene-D8	2037-26-5	0.2	%		**89.5**	**94.1**	----	----	----
4-Bromofluorobenzene	460-00-4	0.2	%		**93.1**	**95.4**	----	----	----

Analytical Results

Sub-Matrix: TCLP LEACHATE (Matrix: WATER)			Sample ID	BH103-0.5-0.6	BH106_0.5-0.6	BH109_0-0.1	----	----
			Sampling date / time	11-Aug-2025 00:00	11-Aug-2025 00:00	11-Aug-2025 00:00	----	----
Compound	CAS Number	LOR	Unit	ES2526307-003	ES2526307-004	ES2526307-005	--------	--------
				Result	Result	Result	----	----
EG005(ED093)C: Leachable Metals by ICPAES								
Lead	7439-92-1	0.1	mg/L	**0.5**	**0.7**	**----**	**----**	**----**
Nickel	7440-02-0	0.1	mg/L	**----**	**----**	<0.1	**----**	**----**

Analytical Results

Descriptive Results

Sub-Matrix: **SOIL**

Method: Compound	Sample ID - Sampling date / time	Analytical Results
EA200: AS 4964 - 2004 Identification of Asbestos in Soils		
EA200: Description	BH110_0.0-0.1 - 11-Aug-2025 00:00	A soil sample.
EA200: Description	BH110_0.3-0.4 - 11-Aug-2025 00:00	A soil sample.

Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP074S: VOC Surrogates			
1.2-Dichloroethane-D4	17060-07-0	64	130
Toluene-D8	2037-26-5	66	136
4-Bromofluorobenzene	460-00-4	60	122
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	63	123
2-Chlorophenol-D4	93951-73-6	66	122
2.4.6-Tribromophenol	118-79-6	40	138
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	70	122
Anthracene-d10	1719-06-8	66	128
4-Terphenyl-d14	1718-51-0	65	129
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	63	125
Toluene-D8	2037-26-5	67	124
4-Bromofluorobenzene	460-00-4	66	131

Inter-Laboratory Testing

Analysis conducted by ALS Newcastle, NATA accreditation no. 825, site no. 1656 (Chemistry / Biology).

(SOIL) EA200: AS 4964 - 2004 Identification of Asbestos in Soils