JBS&G

Health Infrastructure

Detailed Site Investigation

Wentworth Health Services
Wentworth, NSW

30 June 2023

63097/147120 (Rev 0)

JBS&G Australia Pty Ltd

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Abbreviations

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

Executive Summary

JBS&G Australia Pty Ltd (JBS&G) was engaged by Health Infrastructure (HI, the client) to complete a Detailed Site Investigation (DSI) of Wentworth Health Service (WHS), Wentworth NSW (the site). The site is legally identified as Lot 1 in DP 1136392 and occupies an area of approximately 4 hectares. The site location and layout are shown on **Figures 1** and **2** respectively.

WHS is proposed to be redeveloped for ongoing hospital use. The redevelopment footprint has been confined to the southern portion of site (see **Appendix A: Site Survey and Concept Sketches**). The balance of the site is Local Health District (LHD) land which is not subject to redevelopment.

JBS&G completed a desktop preliminary site investigation (PSI, JBS&G 2022a[1]) which had identified a range of areas of concern (AECs) and associated contaminants of potential concern (COPCs) based on historical and currents uses/activities at the site, including potential asbestos contamination as a result of fly-tipping and the creation of existing/current site levels using fill materials of unknown origin. JBS&G had recommended that a DSI inclusive of intrusive sampling be undertaken to characterise potential contamination at the site and confirm the suitability of the site (from a contamination perspective) for the proposed ongoing health services facility land use.

To this extent, assessment of the site contamination potential via a DSI is required to facilitate compliance with the requirements of Chapter 4 Remediation of Land of *State Environmental Planning Policy (Resilience and Hazards) 2021* (Resilience and Hazards SEPP) and to draw conclusions regarding the suitability of the site for the proposed land use or make recommendations to enable such conclusions for the site.

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

- A desktop review of available previous site contamination assessment reports prepared for the site, including a review of documented site history and background information, to confirm potential areas of environmental concern (AECs) and associated contaminants of potential concern (COPCs);
- A detailed site inspection to identify potential AECs and confirm desktop findings;
- Development and documentation of a conceptual site model (CSM) based on the available information;
- Preparation of a Sampling and Analysis Quality Plan (SAQP) for the works, developed using the Data Quality Objectives (DQO) project planning process;
- Implementation of the DSI program including the following:
    - Advancement of 42 test pits (TP01-TP42), seven hand augers (HA43-HA45 and HA47-HA50) and one borehole (BH46) within the site and collection of soil samples.
    - Installation of four groundwater monitoring wells and subsequent successful groundwater sampling of two wells.
    - Sampling of two fire hydrant points to analyse for PFAS.
- Laboratory analysis of selected samples for a range of COPCs;
- Comparison of collected soil and groundwater data against relevant endorsed criteria in relation to assessment, from a contamination perspective, of land use suitability;

[1] *Preliminary Site Investigation, Wentworth Health Services Facility Wentworth, NSW*, JBS&G Australia Pty Ltd, Rev 0, 1 August 2022, Ref: 63097/146694 (JBS&G 2022a)

- Preparation of a DSI report in accordance with EPA guidelines including conclusions regarding the potential contamination status of the site.

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

- The site history review identified that the site was historically as a health care facility since the late 1800s.
- The review of historical site use information, previous reports and inspection of site conditions identified potential AECs and associated COPCs, which were associated with potential importation of fill materials from unknown origins, hazardous materials associated with historical demolition, refurbishment and construction works, biological COPCs related to sewer infrastructure, PFAS from fire hydrants, and the application of pesticides for maintenance of vegetated areas.
- Bonded ACM was encountered within fill in six test pit locations and on the ground surface in some areas of the site, exceeding the adopted health based site criteria;
- Laboratory analysis of selected soil samples indicated that asbestos fines, fibrous asbestos and ACM were not detected above of laboratory LOR in any of the samples analysed. Where ACM was reported in and on soil, the fragments were non-friable;
- No friable asbestos was detected above the LOR/site assessment criteria in all soil samples and as such fibre release and migration is a low risk;
- Concentrations of other COPCs were not identified at levels posing an unacceptable risk to human receptors relating to the proposed redevelopment of the site.
- Ecological exceedances of zinc and hydrocarbon identified onsite do not present an unacceptable risk for a hospital land use setting that requires management or remediation;
- Bonded ACM encountered on surface soils and in fill at some locations across the site are considered to pose an aesthetic issue with respect to the future land use proposed. No other significant aesthetic issues (odours or staining) were identified;
- Concentrations of arsenic, chromium, copper, and zinc reported in groundwater are considered indicative of naturally occurring background levels and potential for COPC migration to groundwater or off-site migration of contamination via surface water/groundwater is considered to be low.
- No soil background issues or chemical mixtures, or significant offsite migration risks were identified;
- Based on the findings of the investigation, and subject to the limitations in **Section 11**, it is concluded that the site can be made suitable for the proposed ongoing hospital use.

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

- A pre-remedial assessment, including the characterisation of soils beneath existing building footprints, is completed following demolition and prior to site remedial works;
- A Remediation Action Plan (RAP) should be prepared for the redevelopment footprint to manage the identified soil impacts;
- A Redevelopment Asbestos Management Plan (RAMP) should be prepared for the redevelopment footprint, detailing the safe implementation of the RAP in undertaking asbestos removal, as guided by the WHS regulatory framework (SafeWork NSW); and

- An AMP should be prepared for the LHD site external to the developable footprint, where the site is a workplace, to manage identified asbestos to meet Work Health and Safety (WHS) Regulations, until such time as identified asbestos risks have been removed.

1. Introduction

1.1 Background

JBS&G Australia Pty Ltd (JBS&G) was engaged by Health Infrastructure (HI, the client) to complete a Detailed Site Investigation (DSI) of Wentworth Health Service (WHS), Wentworth NSW (the site). The site is legally identified as Lot 1 in DP 1136392 and occupies an area of approximately 4 hectares. The site location and layout are shown on **Figures 1** and **2** respectively.

WHS is proposed to be redeveloped for ongoing hospital use. Preliminary concept sketches have proposed a new hospital and associated parking to the southeast of the site, two new staff accommodations and a possible future ambulance station to the southwest of site (see **Appendix A: Site Survey and Concept Sketches**). The redevelopment footprint has been confined to the southern portion of site. The balance of the site is Local Health District (LHD) land which is not subject to redevelopment.

JBS&G completed a desktop preliminary site investigation (PSI, JBS&G 2022a) which had identified a range of areas of concern (AECs) and associated contaminants of potential concern (COPCs) based on historical and currents uses/activities at the site, including potential asbestos contamination as a result of fly-tipping and the creation of existing/current site levels using fill materials of unknown origin. JBS&G had recommended that a DSI inclusive of intrusive sampling be undertaken to characterise potential contamination at the site and confirm the suitability of the site (from a contamination perspective) for the proposed ongoing health services facility land use.

To this extent, assessment of the site contamination potential via a DSI is required to facilitate compliance with the requirements of Chapter 4 Remediation of Land of *State Environmental Planning Policy (Resilience and Hazards) 2021* (Resilience and Hazards SEPP) and to draw conclusions regarding the suitability of the site for the proposed land use or make recommendations to enable such conclusions for the site.

Concurrent hazardous building and material survey (HBMS) and geotechnical investigations were undertaken by JBS&G, and geotechnical specialist subconsultant, Aitken Rowe Testing Laboratories (ARTL), respectively, with standalone reports to be issued for these investigations.

This assessment has been developed in general accordance with NEPC (2013[2]) and guidelines made or approved by the NSW Environment Protection Authority (EPA) and relevant Australian Standards.

1.2 Objectives

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

1.3 Scope of Work

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

- A desktop review of available previous site contamination assessment reports prepared for the site, including a review of documented site history and background information, to confirm potential areas of environmental concern (AECs) and associated contaminants of potential concern (COPCs);
- A detailed site inspection to identify potential AECs and confirm desktop findings;

[2] *National Environmental Protection (Assessment of Site Contamination) Measure 2013*. National Environment Protection Council, 2013 (NEPC 2013).

- Development and documentation of a conceptual site model (CSM) based on the available information;
- Preparation of a Sampling and Analysis Quality Plan (SAQP) for the works, developed using the Data Quality Objectives (DQO) project planning process;
- Implementation of the DSI program including the following:
  - Advancement of 42 test pits (TP01-TP42), seven hand augers (HA43-HA45 and HA47-HA50) and one borehole (BH46) within the site and collection of soil samples.
  - Installation of four groundwater monitoring wells and subsequent successful groundwater sampling of two wells.
  - Sampling of two fire hydrant points to analyse for PFAS.
- Laboratory analysis of selected samples for a range of COPCs;
- Comparison of collected soil and groundwater data against relevant endorsed criteria in relation to assessment, from a contamination perspective, of land use suitability;
- Preparation of a DSI report in accordance with EPA guidelines including conclusions regarding the potential contamination status of the site.

2. Site Condition and Surrounding Environment

2.1 Site Identification

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

Table 2.1: Summary Site Details

Site Legal Identifier (as shown on **Figure 2**)	Lot 1 in DP 1136392
Site Address	24 Hospital Road, Wentworth NSW 2648
Site Area	4 ha
Local Government Authority	Wentworth Shire Council
Approximate Coordinates (GDA 94 Map Grid of Australia (MGA) 54)	Easting: 585100 Northing: 6225273
Registered Site Owner	Health Administration Corporation
Current Zoning	Zone RU5 – Village (Wentworth Local Environmental Plan, 2011)
Previous Land Uses	Vacant Land
Current Land Uses	Health Service
Proposed Land Uses	Health Service

2.2 Site Description

A detailed site inspection was completed on 9 August 2022 by Gina Pinget, one of JBS&G's qualified and experienced field scientists. Relevant site observations are discussed below, and a photographic log is included in **Appendix B**. The site layout is shown in **Figure 2**.

The site comprised the main hospital buildings complex in the central western portion of site with fenced grassed area to the southwest and landscaped area to the north, three secondary support buildings in the central east in a landscaped area with grass and trees surrounded by asphalt access drive/road, and several smaller structures towards the south and southeast of site including maintenance sheds and equipment/waste stores, covered parking areas. Paved pathways interconnect many of the structures. A bitumen car park is situated at the central eastern portion of the site (see **Photographs 1** to **6**).

The site is accessible via Hospital Road, a sealed road that connects to the carpark to the east of site (**Photograph 7**). A raised levee/unsealed road traverses north and south of the Hospital Road entrance and encircles the built structures in the central and southern portions of the site (**Photograph 8**). A second unsealed road branches from the levee and slopes downwards into the northern portion of site, where it turns back towards the levee (**Photograph 9**). It is understood that the levee serves as a maintenance/access track.

The smaller structures included an old boiler house, dirty linen house, old pump house, contaminated (biological) waste store, staff amenities block, maintenance store and workshop, and infectious waste store (old morgue) (see **Photographs 2** to **6**). An old nurse's home, constructed with fibreboard, was noted to be in poor condition and has been condemned (**Photograph 10**). The fibreboard pump shed was also noted to be in a degraded state, and surficial fragments were observed on the ground close by (**Photograph 11**).

Recreational areas are present to the west and north of the main building complex (**Photograph 12**). A suspected asbestos pipe painted white and utilised as a standpipe marker was observed to the north of main building complex (**Photograph 13**). A historical tractor utilised during the construction of the levee serves as a garden centrepiece close by (**Photographs 5** and **13**).

The northern portion of the site consisted mainly of undeveloped scrubland with an unsealed road in the centre, with stockpiles of garden waste and fill soil material (**Photographs 14** and **15**). Conversations with Maintenance confirmed that the area was utilised as a laydown for garden waste produced onsite, and soil backfill is used for managing driveway erosion onsite. The southeastern

portion of the site also comprised of undeveloped vegetated areas (**Photograph 16**). Building and demolition waste, such as bricks, terracotta and porcelain, and scattered surficial ACM was observed in both areas (**Photographs 17** to **19**).

An above-ground storage tank (AST) for liquefied petroleum gas (LPG), two water tanks and several rubbish bins (including one skip bin) were observed in the southern portion of site (**Photograph 20**). A diesel-fuelled emergency generator shed is located adjacent to the condemned old nurse's home (**Photograph 21**). A septic tank was observed near the western boundary of site, northwest of the main building complex, close to a sewer pumping station (**Photograph 6**).

The southwestern grassed portion of the site was observed to have minor undulation on the ground surface, in consistently placed rows (**Photograph 22**). Conversations with Maintenance confirmed that the area, and the vacant northern site portion, had previously been utilised as orchards. Furthermore, soil materials from the area had likely been pushed into the levee during its development. It was noted that surficial ACM was encountered across the southwestern area, including a small stockpile of building and demolition waste with ACM fragments (**Photographs 23** and **24**). Some ACM pipe fragments had also been observed (**Photograph 25**). Maintenance confirmed the presence of an ACM pipe in the southern portion of site, in southwest to northeast trajectory, which had been uncovered during the construction of the modern staff accommodation in 2016.

The western boundary of the site is bound by the Darling River, and the banks are lined with riparian vegetation (**Photograph 12**).

2.3 Surrounding Land Use

The current land uses of adjacent properties or properties across adjacent roadways are summarised below.

- North - the site is bound to the north by vacant bushland and Tuckers Creek and the Wentworth township beyond. The Silver City Highway/Wentworth Street is situated northeast of the site.
- West – the site is bound to the west by the Darling River. Beyond the river is the rural town of Wentworth.
- East – the site is bound to the southeast by Ski Reserve Road and Hospital Road to the northeast, which intersects the eastern site boundary.
- South – the site is bound to the south by vacant cleared and bushland, which includes the heritage-listed Wentworth Water Tower. The Wentworth Ski Reserve recreational facilities area on the banks of the Murray River are beyond.

2.4 Environmental Setting

The environmental setting of the site has been detailed in a previous investigation (JBS&G 2022a). A summary has been provided in **Table 2.1**.

Table 2.1: Summary of Environmental Characteristics for WHS

Environmental Aspect	Characteristics
Topography	Reference to Google Earth Pro[3] indicates that the site is relatively flat, with a gentle fall from 39 m to 38 m Australian Height Datum (AHD) from the north to the south (towards the Murray River). The surrounding area is relatively flat, as it encompasses the confluence of the Darling River and Murray River systems. The site inspection completed by JBS&G indicated that the site has been subject to cut and fill to form the current layout. It was generally level with the surrounding streets, with the exception of the raised levee that surrounds the building structures in the central and southern portions of the site.
Geology / Soil	Reference to the 1:500,000 Geological Series Wentworth Geological Survey of NSW Sheet 9030 (DMR 1983[4]) indicates that site is underlain by Quaternary aged floodplain and outwash sediments ('Qrs-type'). Registered groundwater bore information in **Section 2.8** indicates typical floodplain soils predominantly comprising layers and mixtures of sand, silt and clay. A recent geotechnical desktop study completed by Aitken Rowe (ARTL 2022[5]) referenced a previous investigation of a pump station, located south of the site, which had encountered alluvial material comprising clay-based and sand-based material up to depths of 15 m bgs. Soil observations from the intrusive investigation are presented in **Section 8.1**, and soil borelogs are included as **Appendix K**.
Acid Sulfate Soils (ASS)	A review of the Acid Sulfate Soil (ASS) Risk Map on the Australian Soil Resource Information System (ASRIS[6]) indicated that the site has a very low probability of acid sulfate soils (ASS). Review of the geographical and topographical location of the site has indicated that it is a significant distance away from tidal creeks or estuaries, and it is considered unlikely that ASS would exist at the site. Based on the identified geological and topographical setting no further consideration for the potential for ASS at the site is required.
Hydrology	The site is situated at the confluence of the Murray River and Darling River, directly southwest of the site, and thus considered within the river basin system. Tuckers Creek is situated to the north of site. As the site is situated within the basin, periodic flooding may occur on site. Based on the geological and soil profile of the area being highly influenced by the river systems, the majority of surface runoff would flow west to south-west towards the Darling River and eventually flow into the Murray River. The site survey plan (see **Appendix A**) shows stormwater drainage pits on the site and two discharge outfall points located to the southwest and northwest, as confirmed during the site walkover, which may generate manmade preferential pathways.
Hydrogeology	Registered groundwater bore information within a 1.5 km radius of the site was obtained from Water NSW online search tool (Water NSW 2020[7]). Based on the reported geology, topography and site observations, the permanent groundwater table is expected to be encountered from a depth of 4.5 m bgs. Due to the relatively flat terrain of the site and surrounding area, it is assumed that the natural groundwater migration will occur in a west to southwest direction, following the river flow of the Darling-Murray Basin.

[3] *Google Earth Pro Topographic Elevation Tool* accessed 26 July 2022

[4] *1:500 000 Wentworth Geological Map Sheet Catalog No. 336 Edition 1*. Department of Mineral Resources, Published 1971 (DMR 1983)

[5] *Geotechnical Desktop Study – Proposed Wentworth Health Service Redevelopment, 24 Hospital Road, Wentworth, NSW*, prepared for JBS&G Australia Pty Ltd by Aitken Rowe Testing Laboratories Pty Ltd (ARTL), 29 July 2022, Report number: S22-348 (ARTL 2022).

[6] '*ASRIS*', Atlas of Australian Soils, CSIRO Land and Water, accessed 25 July 2022, https://www.asris.csiro.au/themes/Atlas.html

[7] Water NSW search tool https://realtimedata.waternsw.com.au/. Accessed 21 July 2022.

Environmental Aspect	Characteristics
Meteorology	A review of average climatic data for the nearest Bureau of Meteorology monitoring location (Wentworth Post Office[8]) indicates the site is located within the following meteorological setting: • Average minimum temperatures vary from 4.8 °C in July to 17.1 °C in January; • Average maximum temperatures vary from 15.6 °C in July to 32.9 °C in January; • The average annual rainfall is approximately 284.9 mm with rainfall greater than 1 mm occurring on an average of 42 days per year; and • Monthly rainfall varies from 18.6 mm in April to 27.5 mm in May with the wettest periods occurring on average in May to November.

[8] http://www.bom.gov.au/climate/averages/tables/cw_047053.shtml, Commonwealth of Australia, 2013 Bureau of Meteorology, Product IDCJCM0028, accessed by JBS&G on 26 July 2022.

3. Summary Site History

A detailed assessment of the site history has been presented in the previous JBS&G investigation (JBS&G 2022a). A summary of this information is presented below.

3.1 Historical Land Title Information

Historical land title records indicated that the site has been reserved for the intent of use as a public hospital, or has been an operational public hospital, since the beginning of the land title records for the site in 1889.

A heritage study for Wentworth Shire (Hassell 1989[9]) indicates the original hospital was a brick building that was demolished in 1946 to make way for the present hospital.

3.2 Historical Aerial Imagery

Historical aerial indicated that the land comprised of several building structures associated with the public hospital service, from at least 1964. Due to the limited availability of historical aerials within the Wentworth region, aerials were not available before 1964, nor between 1979 and 1993. Material storage (stockpiling) and disturbed terrain appears to be present in the northern portion of the site. Some building structures have established/disestablished since the initial aerial photograph. The site otherwise appears largely unchanged.

3.3 Council Planning Certificates

Section 10.7 (2 and 5) Planning Certificates indicated that the land has not been identified as triggering any of the matters prescribed by Section 59(2) of the Contaminated Land Management Act 1997 (CLM Act).

3.4 NSW EPA Records

A search of the NSW EPA database was undertaken for the site and immediate surrounding properties. The search was undertaken through the following public registers and is summarised as follows:

- NSW EPA contaminated land public register of record of notices (under Section 58 of the CLM Act);
  - No notices have been issued under the CLM Act for the site or immediate surrounds.
- NSW contaminated sites notified to the EPA (under Section 60 of the CLM Act);
  - The site or land immediately surrounding the site do not appear on the EPA contaminated land register or list of sites notified to EPA.
- NSW EPA Government per- and poly-fluoroalkyl substances (PFAS) Investigation Program.
  - The site or land immediately surrounding the site is not listed on the NSW Government PFAS Investigation program.
- NSW *Protection of the Environment Operations Act 1997* (POEO Act) public register of licences, applications and notices (maintained under Section 308 of the POEO Act);
  - No prevention, clean-up or prohibitions notices and no transfer, variation, suspension, surrender or revocation of an Environment Protection Licence (EPL) has been issued under the POEO Act for the site.

[9] *Wentworth Shire Heritage Study*, prepared for the Council of the Shire of Wentworth by Hassell Planning Consultants Pty Ltd in association with Colin Pardoe, June 1989, available from Wentworth Shire, https://www.wentworth.nsw.gov.au/wp-content/uploads/2020/09/Wentworth-Shire-Heritage-Studnning-Consultants-June-1989.pdf (Hassell 1989)

- A number of licences and variations were issued within the Wentworth LGA, however were not within proximity to the site.

3.5 Australian and NSW Heritage Register

A search of the Australian Heritage Trust database and the NSW Heritage Inventory was undertaken and did not identify the presence of items of national or state significance within the site. The Wentworth Water Tower built in 1888 (by Hudson Brothers Ltd of Clyde, Scotland), is an item of state significance identified approximately 70-80 metres to the south of the site.

3.6 Fair Trading NSW Properties Affected by Loose Fill Asbestos Insulation.

A search of the Fair-Trading NSW Loose-fill Asbestos Insulation Register for the site address has indicated that the property comprising the site is not currently registered as being affected by the presence of LFAI.

3.7 Dangerous Goods Search

A copy of the SafeWork NSW/WorkCover Dangerous Goods records is provided **Appendix C**.

The record consists of renewal applications for one 4,300 L aboveground storage tank (AST) which stores 3,500 L of propane / propane mix, with the initial application dating back to 1995. The last renewal form is dated to 2004 and expired on 11 October 2005, which is then followed by a signed declaration in 2006 which stated that dangerous goods were no longer present on the site. A map sketch shows a gas tank in the southwest portion of site, which appears to be in the same location as the present-day LPG AST.

There are no other documented dangerous goods on the site.

3.8 Asbestos Survey

The client provided an Asbestos Survey report prepared in 2017. The survey included inspection of 15 buildings and related structures, identifying predominantly bonded asbestos cement building materials and some friable asbestos items, and provided recommendations for a range of management actions to several of the buildings. Photographs included suggest there may also be lead-based paints, with some flaking paint visible, however lead-based paints were not assessed.

With respect to potential contamination aspects, JBS&G notes the following items in the report pose a potential risk of contamination:

- Damaged asbestos containing material (ACM) in external building materials that could impact surface soils;
- Potential for flaking lead-based paint to impact surface soils;
- Potential impacts from storage of hospital waste including biological wastes, and infectious waste from former morgue, and waste residue from the boiler house including potential spreading of boiler residues such as ash;
- An old water pump house, potentially operated by diesel, and similarly a current emergency generator also potentially diesel-operated; and
- A dirty linen structure which may have operated as a laundry with associated washing by-products.

3.9 Integrity Assessment

The site is assumed to have been vacant until 1889, where records show that it was granted as land for public hospital use, and later established as the Wentworth District Hospital in 1944. A Heritage Study (Hassell 1989) indicates the original brick hospital building was demolished in 1946 to make way for the current facility. Aerial photography available from 1964 suggests that the site has

undergone minor changes over the past 80 years and has remained a public hospital during this time. Considering the various sources of information and consistency of findings, the historical assessment has an acceptable level of accuracy regarding potentially contaminating activities that may have occurred on the site.

3.10 Previous Investigations

3.10.1 Asbestos Survey Report (FWLHD 2017[10])

The client provided an Asbestos Survey report prepared in 2017. The survey included inspection of 15 buildings and related structures, identifying predominantly bonded asbestos cement building materials and some friable asbestos items, and provided recommendations for a range of management actions to several of the buildings. Photographs included suggest there may also be lead-based paints, with some flaking paint visible, however lead-based paints were not assessed.

With respect to asbestos contamination aspects, JBS&G noted that damaged ACM in external building materials could impact surface soils.

3.10.2 Preliminary Site Investigation (PSI, JBS&G 2022a)

JBS&G conducted a PSI for Wentworth Health Services Facility, which comprised a desktop review of site history and background information including a site inspection from external areas to identify potential AECs and associated COPC; development and documentation of a preliminary CSM based on the available information. Access for a site inspection was not available for the PSI.

The investigation concluded:

- The site was primarily vacant up until circa 1880s, when it was acquired and developed as a public hospital, and has remained since;
- A range of AECs and COPC based on historical and currents uses/activities at the site were identified;
- Specific to potential asbestos contamination, fly-tipped materials appeared to be present in the northern portion of the site, and the creation of existing/current site levels may have been achieved using fill materials of unknown origin;
- It was considered unlikely that activities at the site will have contaminated the land to a degree that would prevent the redevelopment of the site for continued health services facility land use; and
- It was anticipated that the site can be made suitable for the proposed land-use in the event contamination was identified at the site.

Based on these conclusions, JBS&G recommended that a DSI inclusive of intrusive sampling be undertaken to characterise potential contamination at the site and confirm the suitability of the site (from a contamination perspective) for the proposed ongoing health services facility land use.

[10] *Asbestos Survey, Wentworth Health Service, Far West Local Health District 2017,* August 2017.

4. Assessment of Potential Contamination

4.1 Potential Areas of Environmental Concern Based on Current Site Conditions

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

Table 4.1: Areas of Environmental Concern and Contaminants of Potential Concern

Area of Environmental Concern (AEC)	Primary Contaminants of Potential Concern (COPC)
Anthropogenic fill materials of unknown origin used to create existing/current site levels, including the raised levee Former orchard areas Fly-tipped waste	Heavy metals, total recoverable hydrocarbons (TRH), volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), organochlorine pesticides (OCPs), polychlorinated biphenyls (PCBs) and asbestos
Shallow soils potentially impacted with hazardous building materials historically demolished in or within proximity to the site, and pesticides	Asbestos, lead, OCPs and PCBs
AST observed, and USTs that may be present underground, which may have impacted immediate soil and groundwater Emergency generator	Heavy Metals, TRH/BTEX, phenols, PAHs and VOCs
Laundry facilities	Trichloroethylene (TCE) and perchloroethylene (PCE)
Firefighting systems	PFAS
Maintenance workshop/old boiler house	Hydrocarbons, metals, solvents, acids/alkalis, refrigerants
Septic tank, grease trap and sewer pump station	Metals, biologicals, hydrocarbons
Decommissioned pipe which leads offsite towards the heritage Wentworth Water Tower	Asbestos
Old morgue	Infectious waste, biologicals, formaldehyde, heavy metals

4.2 Potentially Contaminated Media

Each of the AECs and corresponding COPCs identified in **Section 4.1** have the potential to impact soil, groundwater and/or soil gas (where volatile constituents are identified) underlying the site.

Where fill materials are present, such as within the raised levee, former orchard areas, fly-tipped waste or soils that have been disturbed close to the building structures, there is a likelihood that environmental impact may be present, consistent with the depth of the disturbance. Anthropogenic materials are commonly present in impacted fill materials and can be used as an indication of the depth of disturbance. Where fill materials impacted with chemical-based contaminants are identified, there is a likelihood the impact may have migrated laterally and vertically below the fill material.

With the exception of asbestos, each of the COPCs identified in **Table 4.1** for the site have the potential to migrate from shallow soils into groundwater. Natural soils and/or bedrock underlay the fill material in various areas of the site, and may potentially be impacted by the downward migration of contaminants through fill where surfaces are unsealed. There is the potential for the leaching of contaminants vertically from fill into groundwater and/or potential off-site impacts. Natural soils/rock may also be impacted by contaminated groundwater migration (if present).

An LPG UST, an emergency generator, sewer pumping station and a septic tank and an interceptor pit were observed on the available plans, and there is the potential for underground petroleum storage systems (UPSS) to be present, due to its historical use. Current and former hospital activities, including the old morgue and laundry, may have the potential for chemical and biological impacts. As such, soils within vicinity of any the aforementioned structures are considered to be potentially contaminated, including the potential for subsurface impacts.

Firefighting systems are noted on the plans, which may contain PFAS. As such, there may be potential contamination impacts to the soil surface, subsurface and groundwater system. Potential chemicals associated with the laundry (TCEs and PCEs) could also impact groundwater.

With consideration to the construction age of some structures identified at the site, hazardous building materials including ACM and/or lead paint may have been used. As such, surface soils within vicinity of existing (and former) site structures are considered to be potentially contaminated. In addition, a known asbestos pipe is located within the southern portion of site, leading offsite towards the heritage Wentworth Water Tower.

Review of the site history and environmental setting has indicated that the potential for soil-vapour contamination is low. On this basis, no direct assessment of soil-vapour is considered warranted. Notwithstanding, if substantial soil impacts by volatile COPCs (BTEX and volatile TRHs) are identified, ancillary soil vapour impacts may be present.

Based upon assessment of geological conditions at the site including consideration of the potential future development activities in accordance with ASSMAC (1998), it has been concluded that there are no risks from potential ASS at the site that require consideration during future development activities and/or proposed land uses.

4.3 Potential for Migration from Site

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

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

The COPCs identified as part of the site history review and site inspection are generally in solid (e.g. asbestos, PAHs and metals), liquid (e.g. TRH, BTEX, VOCs, PFAS, OCPs and PCBs) or gaseous (e.g. VOCs, BTEX, volatile TRH and semi-volatile TRH and PAHs) form.

As the site is predominately unsealed, the potential for windblown dust migration of contamination from the site is moderate. The potential for contamination migration via surface water movement and infiltration of water and subsequent migration through the soil profile is considered to be moderate given the absence of impervious pavements and the reported floodplain geology.

The potential solubility of chemical contaminants in soil, in addition to rate of surface water infiltration, perched water seepage and groundwater movement across the site will influence the potential for migration of soil and groundwater contamination within and from the site. Should impacted groundwaters be identified in proximity to the inferred downgradient boundary of the site, then the potential for off-site migration of contaminants in groundwater will require further consideration.

The potential for off-site migration of vapours will only be relevant where these constituents are identified at significant levels. These constituents can migrate laterally from the site through diffusive/advective processes as well as through preferential pathways (refer to **Section 4.5**). Should elevated levels of vapours be identified, then the potential off-site migration of these constituents will require further consideration.

4.4 Potential Human and Ecological Receptors and Exposure Pathways

A summary of potential human receptors and associated exposure pathways for the site, based on the range of exposure scenarios that may occur under the different potential land-uses of the site is presented in **Table 4.2**.

Table 4.2: Summary of Potential Human Exposures

Receptor	Location	Media	Potential Exposure Pathways
Commercial Worker (adult) Public patients and visitors, including sensitive receptors such as children and the elderly	Commercial building/ Outdoor areas	Soils	Inhalation (vapours, airborne particulates) Oral and dermal in unpaved areas
		Groundwater	Inhalation (vapours)
Construction worker or intrusive maintenance worker (short duration)	Construction areas/ Excavations	Soils	Inhalation (vapours and particulates) Oral Dermal
		Groundwater	Inhalation (vapours) Oral (infiltrating seepage water) Dermal (infiltrating seepage water)

The site is predominantly unsealed, including landscaped areas and scrub. As such, there is the potential for on-site ecological receptors that could be exposed to environmental impacts underlying the site.

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

- Future workers, public patients and visitors (including sensitive receptors such as children and the elderly) and landowners who may potentially be exposed to COPC through direct contact with impacted soils and/or inhalation of dusts/inhalation of groundwater vapours/fibres associated with impacted soils; and/or
- Excavation/construction/maintenance workers conducting activities at the site, who may potentially be exposed to COPC through direct contact with impacted soils or groundwater present within excavations and/or inhalation of dusts/inhalation of groundwater vapours/fibres associated with impacted soils; and
- Flora species to be established on the vegetated areas of the site.

Where petroleum or other volatile hydrocarbon compound impact is identified, potential inhalation exposure to vapours may also need to be considered.

4.5 Preferential Pathways

For the purpose of this assessment, preferential pathways have been identified as natural and/or man-made pathways that result in the preferential migration of COPCs as either liquid or gas.

Man-made preferential pathways at the site are limited to:

- Fill materials used in construction of existing site levels which typically have a higher permeability than natural soils; and
- Underground service infrastructure present at the site potentially acting as preferential pathways for mobile liquid and vapour contaminants, potentially including stormwater, sewer and other waste lines, electrical/communications conduits; and services/inspection pits.

Where environmental impact (particularly in liquid or gaseous form) is observed within fill materials, further consideration to the potential migration of these impacts will be required.

5. Sampling, Analytical and Quality Plan

5.1 Data Quality Objectives

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

5.1.1 State the Problem

The objective of the investigation was to characterise potential contamination at the site, and to assess whether potential contamination from historical activities at the site may pose an unacceptable risk to future receptors for the proposed land use, or to make recommendations to enable such assessments to be made. Based on **Section 4**, a potential for contamination has been identified at the site, which requires further assessment in order to meet the objectives of the assessment.

5.1.2 Identify the Decision

The decisions required to be made for the investigation are:

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

5.1.3 Identify Inputs to the Decision

Inputs to the decision are:

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

Specifically, sufficient data needs to be collected from each of the identified potentially impacted media in the identified AEC for the associated COPC (**Table 4.1**).

5.1.4 Define the Study Boundaries

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

The vertical extent of the soil investigation was to a maximum depth of 1.5 m bgs (TP03), the depth of the deepest soil sample collected, and 6.0 m bgs for groundwater (MW06 and MW07).

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

5.1.5 Develop a Decision Rule

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

Table 5.1: Summary of Decision Rules

Decision Required to be Made	Decision Rule
1. Are there any potentially unacceptable risks to onsite future receptors?	a) Soil analytical data was compared against EPA endorsed criteria. Statistical analyses of the data in accordance with relevant guidance documents was undertaken, if appropriate, to facilitate the decisions. The following statistical criteria was adopted with respect to soils: Either: the reported concentrations were all below the site criteria; Or: the 95% upper confidence limit (UCL) of the average concentration for each analyte was below the adopted site criterion; no single analyte concentration exceeded 250% of the adopted site criterion; and the standard deviation of the results was less than 50% of the site criterion. If the statistical criteria stated above was satisfied, the decision was No. If the statistical criteria were not satisfied, the decision was Yes.
	b) Groundwater analytical data was compared against EPA endorsed criteria. If the reported concentrations were all below the Site Criteria, the answer to the decision was No; If analytical concentrations were in excess of the Site criteria, further consideration of potential risks would be required to establish whether the results are indicative of background conditions. If this is not the case, then the answer to the decision is Yes.
2. Are there any issues relating to the local area background soil concentrations that exceed appropriate soil criteria?	If surface soils concentrations exceeded background concentrations, the decision was Yes. Otherwise, the decision was No.
3. Are there any chemical mixtures?	Were there more than one group of contaminants present which increase the risk of harm? If there was, the decision was Yes. Otherwise, the decision was No.
4. Are there any aesthetic issues?	If there were any fragments of asbestos containing material (ACM) or other foreign anthropogenic materials on or in the ground, any unacceptable odours or soil discolouration, the answer to the decision was Yes. Otherwise, the decision was No.
5. Is there any evidence of, or potential for, migration of contaminants from the site?	Based on assessment results, was there any evidence of, or the potential for, migration of unacceptable contaminant concentrations to migrate from the site? If yes, the decision was Yes. Otherwise, the decision was No.
6. Is a management strategy required?	Was the answer to any of the above decisions Yes? If yes, a site management strategy would be required to address the identified risks. If no, a site management strategy would not be specifically required. The requirement for site management may be precluded by further assessment and/or remediation of the areas of environmental impact that causes a site decision answer to be yes.

5.1.6 Specify Limits of Decision Error

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

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

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

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

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

Table 5.2: Summary of Quality Assurance / Quality Control Program

Data Quality Objectives	Frequency	Data Quality Indicator
Precision		
Blind duplicates (intra laboratory)	1 / 20 samples	<50% relative percent difference (RPD)[1]
Blind duplicates (inter laboratory)	1 / 20 samples	<50% RPD
Accuracy		
Surrogate spikes	All organic samples	70-130% recovery
Laboratory control samples	1 per lab batch	70-130% recovery
Matrix spikes	1 per lab batch	70-130% recovery
Laboratory duplicates	1 per lab batch	<30% RPD
Representativeness		
Sampling appropriate for media and analytes		-[2]
Samples extracted and analysed within holding times.	-	Soil and Surface Water Organics (7-14 days), inorganics (6 months soil, 28 days groundwater), nitrates (28 days)
Trip spike (BTEX only)	1 per sampling event	70-130% recovery
Rinsate blank	1 per sampling event where non disposable equipment was used	<LOR
Method blank	1 per lab batch	<LOR
Comparability		
Standard operating procedures for sample collection & handling	All Samples	All samples
Standard analytical methods used for all analyses	All Samples	NATA accredited methods
Consistent field conditions, sampling staff and laboratory analysis	All Samples	All samples[2]
Limits of reporting appropriate and consistent	All Samples	All samples[2]
Completeness		
Sample description and COCs completed and appropriate	All Samples	All samples[2]
Appropriate documentation	All Samples	All samples[2]
Satisfactory frequency and result for QC samples	All QA/QC samples	95% compliance
Data from critical samples is considered valid	-	Critical samples valid
Sensitivity		
Analytical methods and limits of recovery appropriate for media and adopted Site assessment criteria	All samples	LOR ≤ site assessment criteria

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

[2] A qualitative assessment of compliance with standard procedures and appropriate sample collection methods will be completed during the DQI compliance assessment.

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

5.1.7 Optimise the Design for Obtaining Data

The site footprint is approximately 4 ha in size, with a small portion covered by existing hospital buildings. No intrusive investigations were able to be undertaken within building footprints as part of the DSI due to the operational nature of these buildings at the time of site investigation, therefore a combination of general systematic sampling (50 m grid base) and targeted sampling programs were undertaken, comprising sampling soil from test pits and hand augers across the site. Targeted locations were conducted adjacent to buildings with suspected ACM and lead paint construction, and close to the sewer infrastructure to target biological COPC. A total of 51 soil locations were completed, meeting the recommended density for sample locations as per the *Contaminated Land Guidelines: Sampling Design Part 1 - Application* (EPA 2022[11]). Sample locations are presented in **Figure 4**.

5.2 Soil Sampling Methodology

Soil sampling was generally completed via test pit sampling using an excavator. As a result of access limitations in using the excavator, one sample location was completed via a mechanical drill rig (BH46), and seven locations were completed using a hand auger (HA43 to HA45, and HA47 to HA50). One surface soil sample was collected directly below the diesel generator outlet (SS01). Soil samples were collected generally from surface soils (0-0.1 m), 0.3 m, 0.5 m and then at 0.5 m intervals to a maximum depth of 1.5 m bgs (TP03) or 0.5 m into natural materials (or prior refusal), whichever was the shallower.

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

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

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

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

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

[11] EPA (2022) *Contaminated Land Guidelines: Sampling Design Part 1 - application*. Environment Protection Authority, August 2022

5.3 Asbestos Quantification of Accessible Fill Based Soils

Asbestos quantification sampling was conducted at each sample location in accordance with WA DoH (2009[12]) and NEPC (2013) guidance by appropriately trained JBS&G scientist experienced in the identification of asbestos. The following method was adopted during test pitting works:

- At each sample location, a minimum 20 litre sample of material from each 1 m depth interval/fill profile was spread at a thickness of not more than 100 mm onto the contrasting colour material. All observable bonded ACM and FA per sample location was collected in separate sample bags (i.e., one sample bag for bonded ACM and one sample bag for FA per each 1 m interval) for weighing using an independently calibrated scale (0.01 g accuracy) to enable asbestos soil concentrations to be calculated. The approximate mass of the soil volume was calculated using a soil density of 1.64 g/cm^3, which is taken as the average of the predominant fill types being clays and sand.
- At least one 500 mL sample from each interval/fill layer from each location was analysed for asbestos in accordance with AS 4964-2004: Method for the Qualitative Identification of Asbestos in Bulk Samples.
- Bonded ACM and/or FA collected and bagged from each depth interval was weighed in-house using a calibrated scale with an accuracy of 0.01 g and the measured weight recorded on the field bore hole logs.
- A field observation log for each sampling location was recorded, noting the presence, type and status or absence of asbestos, ground surface details (e.g., exposed soils or grass) lithological description, moisture, volume of spoil quantified at each depth and any other observable contamination indicators such as staining, malodorous materials, ash and slag.

5.3.1 Calculation of Bonded ACM and FA Concentration

Asbestos percentage was calculated as per the formula below:

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

For bonded ACM, an asbestos content of 15% was used, in accordance with enHealth (2005[13]

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

5.3.2 Soil Field PID Screening

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

5.4 Groundwater

5.4.1 Groundwater Monitoring Well Installation

Monitoring wells MW01, MW02, MW03 and MW04 were installed by ARTL geotechnical consultants during the intrusive investigation works. Bore logs generated by ARTL have been included as **Appendix D**. The wells were installed via drill rig utilising solid flight auger techniques to a total

[12] WA DOH (2009) *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia*, WA Department of Health.

[13] *Asbestos, A guide for householders and the general public, enHealth, February 2013 (enHealth 2013).*

depth of 4.5 m bgs (MW01 and MW02) and 6.0 m bgs (MW03 and MW04). It is noted that borehole collapse occurred during the installation of MW01 and MW02 as a result of loose sediment and seepage, as such these wells were not able to be installed to the same depth as MW03 and MW04.

The wells were constructed from 50 mm unplasticised polyvinyl chloride (uPVC) screen and casing, combined with a lockable cap and steel gatic cover. The screen was installed such that the encountered water level was within the screened interval, allowing for the detection of Light Non-Aqueous Phase Liquids (LNAPLs), if present. It is noted no LNAPL was encountered.

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

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

5.4.2 Groundwater Sampling Methodology

Each new groundwater monitoring well was gauged with an Interface Probe (IP) which can detect Non-Aqueous Phase Liquids (NAPLs). If NAPLs were present within the well, they were collected with a disposable plastic bailer. NAPLs were not encountered.

The wells were purged with a low flow peristaltic pump, using fresh disposable High Density Polyethylene (HDPE) tubing and silicon, to remove the standing water. During removal, physicochemical parameters (pH, electrical conductivity (EC), dissolved oxygen (DO), reduction-oxidation potential (Eh) and temperature) were monitored until stabilisation. Groundwater samples were taken after parameter stabilisation has occurred.

It is noted that well collapse during the installation of MW01 and MW02 coupled with slow groundwater recharge had precluded successful sampling, thus the wells were deemed dry.

In addition, two "grab" samples of water were taken from two separate fire hydrant points, to be analysed for PFAS and designated as HP01 and HP02, as shown on **Figure 4**.

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

5.5 Decontamination

Samples were collected directly from the hand auger during soil sampling. The hand auger was decontaminated between sampling locations by removing excess dirt using a brush, rinsing in a mixture of phosphate-free detergent, followed by rinsing with deionised water. A rinsate sample was collected following decontamination of the hand auger.

Within test pits, soil samples were collected from the middle of the backhoe bucket to minimise disturbance and risk of cross contamination. A pair of new nitrile gloves were worn for collection of each new sample.

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

Decontamination records are included in **Appendix E**.

5.6 Duplicate and Triplicate Sample Preparation

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

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

5.7 Laboratory Analysis

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

Table 5.3 Analytical Schedule

Sample Type	No. of Sampling Locations	Analyses (exc. QA/QC)
Soil	51 locations	Asbestos – 52 samples (500 mL per NEPC 2013) Asbestos – 6 samples (presence/absence) Heavy metals (As, Cd, Cr, Cu, Hg, Ni, Pb, Zn) – 40 samples TRH/BTEX – 25 samples PAH – 40 samples OCPs/PCBs – 25 samples VOCs – 5 samples Ecological parameters per NEPC 2013 – 5 samples TCLP (leachable lead) – 2 samples E.coli and faecal coliforms – 5 samples
Groundwater	2 wells	Heavy metals - filtered (As, Cd, Cr, Cu, Hg, Ni, Pb, Zn) – 2 samples TRH/VOCs – 2 samples PAH – 2 samples pH – 2 samples Hardness – 2 Electrical conductivity – 2 Total dissolved solids – 2 PFAS – 2 samples
Water (fire hydrant points)	2 hydrants	PFAS – 2 samples

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

6. Assessment Criteria

6.1 Regulatory Guidelines

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

- *National Environment Protection (Assessment of Site Contamination) Measure 1999*, as amended 2013, National Environment Protection Council (NEPC 2013);
- *Contaminated Land Guidelines: Sampling Design Part 1 - application*, NSW EPA, 2022 (EPA 2022);
- *Australian and New Zealand Guidelines for Fresh and Marine Water Quality*, Australian and New Zealand Governments and Australian state and territory governments, Canberra ACT, Australia. Available at www.waterquality.gov.au/anz-guidelines (ANZG 2018);
- *Contaminated Land Management: Guidelines for the NSW Site Auditor Scheme*, 3rd Edition, NSW EPA, 2017 (EPA 2017);
- *Contaminated Sites: Guidelines for the Assessment and Management of Groundwater Contamination*, NSW DEC, March 2007 (DEC 2007);
- *National Water Quality Management Strategy – Australian Drinking Water Guidelines 6 2011*, National Health and Medical Research Council, Updated August 2018, (NHMRC 2018);
- *Guidelines for Managing Risks in Recreational Water*, NHMRC, 2008 (NHMRC 2008);
- *Contaminated Sites: Guidelines on Duty to Report Contamination under the Contaminated Land Management Act 1997*, NSW EPA, September 2015 (EPA 2015);
- *Guidelines for Use and Disposal of Biosolids Products,* NSW EPA, December 2000, (EPA 2000)*;*
- *Consultants Reporting on Contaminated Land*, NSW EPA, April 2020 (EPA 2020); and
- *PFAS National Environmental Management Plan Version 2.0* (NEMP 2.0), The Heads of EPAs Australia and New Zealand, January 2020 (HEPA 2020).

6.2 Soil Assessment Criteria Selection

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

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

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

- HSLs for asbestos in soil for residential with minimal soil access land use (HSL B);
- Ecological investigation levels (EILs) for urban residential and public open space land use, site specific;
- Ecological screening levels (ESLs) for urban residential and public open space land use, coarse soil; and
- Management limits for TRH fractions for residential with minimal soil access land use, for fine soil types.

Site-specific EILs for some metals were calculated consistent with NEPC (2013), using average site specific data (pH = 8.0 pH units, total organic carbon (TOC) = 0.36 %, clay percentage = 9.94% and cation exchange capacity (CEC) = 27 meq/100g), as presented in **Table A**. NEPC (2013) states that that EILs apply principally to contaminants in the top 2 m of soil at the finished surface/ground level which corresponds to the root zone and habitation zone of many species. In arid regions, where the predominant species may have greater root penetration, specific considerations may result in their application to 3 m depth.

Biological contaminants such as E.coli and faecal coliforms were compared against parameters published in Table 3.5 of the EPA biosolids guidelines (EPA 2000).

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

6.3 Waste Classification for Off-site Disposal

Soil data was compared to criteria in the *Waste Classification Guidelines* (EPA 2014) to provide a preliminary assessment of potential waste classification in the event soil may be required to be removed from site for disposal. Soil only requires classification as a waste where it has to be removed from site, at which time waste classification should be confirmed prior to removal, including additional sampling and analysis and specific waste classification documentation as appropriate.

Initially, the soils will be assessed against the special waste criteria, primarily for the presence of asbestos then, where soils are not pre-classified, comparison of soil chemical analytical data against EPA (2014) contaminant thresholds (CT), specific contaminant concentrations (SCC) and toxicity characteristic leaching procedure (TCLP) criteria for general and restricted solid waste.

6.4 Groundwater Investigation Levels

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

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

- Aquatic ecosystems;
- Aquaculture and human consumers of food;
- Agricultural water;
- Recreation and aesthetics;
- Drinking water; and
- Industrial water.

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

Beneficial reuse of groundwater at the site is considered unlikely, however, as a conservative guideline, the health and aesthetics based *Australian Drinking Water Guidelines* (NHMRC 2018) for drinking water were adopted for the purposes of the assessment. In addition, although it is unlikely workers would interact with groundwater given its depth reported herein, conservative screening criteria for the assessment of risk to construction/maintenance workers as a result of short term work involving interaction with groundwater at the site, has been adopted as 10 times the health values for Drinking Water published in (NHMRC 2018). A similar approach is taken to assessing PFAS in groundwater against drinking water and recreational criteria in the PFAS NEMP (HEPA (2020).

To assess the potential risk of contaminated groundwater migrating from the site towards the Murray-Darling confluence, reference has been made to the ANZG (2018) 95 % default trigger values for freshwater aquatic systems. Due to the likelihood of upstream impacts along the Murray-Darling, the 95% protection levels are deemed appropriate. Where no high reliability values have been specified, low reliability and/or screening level values have been utilised for the purpose of site assessment and screening. PFAS NEMP (HEPA 2020) ecological criteria for 95% and 99% protection levels have been used to assess potential risks to receiving waters from PFAS in groundwater, noting that where laboratory LORs are above a most sensitive 99% criterion, as for Perfluorooctanesulfonic acid (PFOS), the 95% criterion has been adopted for screening purposes.

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

7. Quality Assurance and Quality Control

7.1 QA / QC Results

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

Table 7.1: Data Quality Indicator Assessment

Data Quality Indicator	Results	DQO met?
Precision		
Soil blind duplicates (intra laboratory)	Chemical samples 0-138% RPD Asbestos non-detection agreement with primary sample Soil duplicates were analysed at a rate of 1 in 20 samples.	Partial[1]
Soil split duplicates (inter laboratory)	Chemical samples 0-82 % RPD Asbestos non-detection agreement with primary sample Soil duplicates were analysed at a rate of 1 in 20 samples.	Partial[1]
Groundwater duplicates (intra laboratory)	0-116% RPD Groundwater duplicates were analysed at a rate greater than 1 in 20 samples.	Partial[1]
Groundwater duplicates (inter laboratory)	0-86% RPD Groundwater duplicates were analysed at a rate greater than 1 in 20 samples.	Partial[1]
Laboratory Duplicates	0-20 % RPD	Yes
Accuracy		
Surrogate spikes	43-158% recovery	Partial[1]
Laboratory control samples	65-146% recovery	Partial[1]
Matrix spikes	50-146% recovery	Partial[1]
Representativeness		
Samples extracted and analysed within holding times.	All primary and duplicate samples were extracted and analysed within the nominated holding times.	Yes
Trip spike	70-130 % recovery	Yes
Trip blank	<LOR	Yes
Field/Rinsate blanks	<LOR	Yes
Standard operating procedures for sample collection & handling	Field scientist used the same standard operating procedures throughout works.	Yes
Comparability		
Standard analytical methods used for all analyses	Standard analytical methods used.	Yes
Consistent field conditions, sampling staff and laboratory analysis	Standard operating procedures were conducted throughout the works. Field conditions remained the same throughout the works. The primary and secondary labs remained consistent throughout the investigation.	Yes
Limits of reporting appropriate and consistent	Limits of reporting were consistent and appropriate.	Yes
Completeness		
Soil description and COCs completed and appropriate	All bore logs, field monitoring sheets and COCs were completed appropriately.	Yes
Appropriate documentation	All appropriate field documentation is included in the Appendices.	Yes
Satisfactory frequency and result for QC samples	The QC results are considered adequate for the purposes of the investigation.	Yes
Data from critical samples	Samples were analysed at locations where potential for contamination was observed.	Yes
Sensitivity		
Analytical methods and limits of recovery appropriate for media and adopted site assessment criteria	Analytical methods and limits of recovery were considered appropriate for media and adopted site assessment criteria for all soil and groundwater analytes.	Yes

Notes:

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

7.2 QA/QC Discussion

7.2.1 Precision

Soil Duplicate Samples

Intra-laboratory and inter-laboratory duplicates were analysed at a rate of 1 per 20 primary samples for heavy metals, TRH/BTEX, PAH, E.coli, faecal coliforms, VOCs, OCP, PFAS and asbestos.

Intra-laboratory duplicate RPDs were generally within the acceptance criteria, with the exception of the following:

- Chromium (41%), copper (138%), lead (65%), mercury (100%), zinc (40%) and mid to heavy TRH fractions (ranging from 54% - 59%) between primary soil sample TP24_0.0-0.1 and intra-laboratory duplicate QC20220810-01.
- Mercury (67%) between primary soil sample HA50-0-0.1 and intra-laboratory duplicate QC20220811-01.

Inter-laboratory duplicate RPDs were generally within the acceptance criteria, with the exception of the following:

- Chromium (49%), copper (57%), lead (37%), benzo(a)pyrene TEQ (82%) and mid to heavy TRH fractions (67%) between TP24_0.0-0.1 and inter-laboratory duplicate QA20220810-01.
- Chromium (58%), Mercury (40%) and benzo(a)pyrene TEQ (82%) between primary soil sample HA50-0-0.1 and inter-laboratory duplicate QA20220811-01.

The RPDs for the intra-laboratory and inter-laboratory duplicates are presented in **Appendix F.** The elevated RPDs are considered to be the result of heterogeneity in the soil samples collected and low reported concentrations close to the laboratory LOR. The elevated RPD results are not considered to influence the outcome of the investigation. The higher duplicate result was considered during data assessment.

Groundwater Duplicate Samples

The RPDs between primary groundwater sample (MW03) and intra-laboratory duplicate (QC-MW) analytical results were within the acceptable limits of deviation from the DQI with the exception of the following: copper (116%), nickel (67%) and zinc (77%).

The RPDs between primary groundwater sample (MW03) and intra-laboratory duplicate (QA-MW) analytical results were within the acceptable limits of deviation from the DQI with the exception of the following: copper (86%), chromium (67%), nickel (67%) and TRH fraction F2 (C10-C16 less Naphthalene) (35%).

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

Laboratory Duplicate

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

7.2.2 Accuracy

Soil and groundwater surrogate spikes were conducted on all samples submitted for organic constituent analysis and recoveries were reported within the JBS&G acceptable range (70-130 %). A small number of surrogate recoveries were reported outside the JBS&G acceptable range but within

the laboratory's acceptable range under NATA accreditation. The laboratory reported that PFAS field samples that contain surrogate recoveries in excess of the QC limit laboratory's acceptable range where no positive PFAS results have been reported have been reviewed and no data was affected.

Laboratory control sample (LCS) recoveries were generally reported within JBS&G acceptable range (70-130 %) with the exception of perfluorodecanesulfonic acid (PFDS) (65%) and perfluorotridecanoic acid (PFTrDA) (146%). However, the LCS recoveries were within the laboratory acceptance criteria.

Matrix spike recoveries were generally reported within JBS&G acceptable range (70-130 %) or within the laboratory acceptance criteria (50%-150%). Furthermore, the laboratory report states that acceptable recoveries were obtained for laboratory control samples, indicating that exceedances in the JBS&G acceptable range had been sample matrix interference.

7.2.3 Representativeness

Sampling appropriate for media and analytes

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

Holding Times

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

Trip Spike

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

Trip Blank

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

PFAS Field Blanks

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

Decontamination and Calibration

All field equipment was decontaminated and calibrated appropriately as per the procedure identified in **Section 5.**

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

7.2.4 Comparability

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

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

7.2.5 Completeness

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

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

7.2.6 Sensitivity

Laboratory analysis methods for all contaminants adopted during the investigation generally used limits of reporting significantly less than the site assessment criteria to ensure the contaminant concentrations could be confidently identified as being less than the adopted site assessment criteria, with the exception of PFAS, noting the 99% assessment criterion for PFAS in freshwater is not readily achievable by analytical laboratories. Notwithstanding, no PFAS was detected within the hydrant system, which is considered to be the potential source of contamination.

7.3 QA/QC Assessment

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

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

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

8. Results

Soil sampling was conducted on 9, 10 and 11 August 2022 at the sample locations shown on **Figure 4**. Borehole logs are included in **Appendix D**.

8.1 Soil Observations

Fill material encountered at the site primarily comprised red to dark brown silty clay or silty sand (see **Photographs 26** to **28**, **Appendix B**) with a low proportion of gravels, and minor anthropogenic inclusions, such as glass, plastic, porcelain, concrete, terracotta and brick, were observed in varying degrees at some locations: TP01 to TP04, TP13, TP16, TP25, TP27, TP30, TP32 to TP35 and TP41 (see **Photograph 31**). Fill material was underlain by natural dark brown clay to yellow/grey sandy clay (see **Photographs 29** and **30**).

Fill was generally encountered to 0.1 to 0.3 m bgs across the site. Deeper fill was noted within test pits to the northwest of site (to a maximum of 1.0 m bgs at TP03), and within the levee batter (ranging from 0.7 m bgs at TP32 to 1.0 m bgs at TP27).

Bonded ACM fragments was observed on the ground surface in some areas of the site at higher concentrations (approximately five fragments or more per 10 m^2) within three areas; north, southwest and southeast, (**Figure 3**). Lower concentrations of bonded ACM (less than five fragments per 10 m^2) were observed around building structures and the balance of the site. The size of bonded ACM varied from 1 cm by 1 cm to 10 cm x 5 cm across, associated with a bonded ACM pipe fragment. No fragments were below 7 mm, which would constitute asbestos fines.

ACM was observed at six test pit locations (TP02, TP03, TP32, TP33, TP34 and TP41), as indicated on **Table E** and **Photographs 32** to **34**. At TP32 the ACM appeared coincidental with a layer of anthropogenic material at approximately 0.5 to 0.7 m bgs.

Potential light staining was observed at the surface of TP42 within the carport driveway. No odours were noted, and the PID reading was low (0.8 ppm). No other staining or odours were observed throughout the soil profile at any of the investigation locations. PID readings (below 3 ppm) from sampled soils indicated no significant sources of hydrocarbon/VOC contamination existing within site soils.

8.2 Soil Analytical Results

Detailed laboratory reports and chain of custody documentation are provided in **Appendix G**. Soil sampling locations are shown on **Figure 4**, and soil exceedances are shown on **Figure 5**. Summarised soil laboratory results are presented in **Table A** and discussed in the following sections.

8.2.1 Asbestos

Bonded ACM was observed in 6 out of 65 samples within 50 locations, with a maximum concentration of 0.094% w/w during field asbestos quantification, with TP32-0.5-0.7 exceeding the adopted site criterion of 0.04% w/w. The remaining 5 locations were below the adopted site criterion, as summarised in **Table E.** Notwithstanding, asbestos was encountered on the ground surface of the site, with spatial distribution indicated on **Figures 3** and **5**.

Laboratory analysis for asbestos presence/absence was completed and confirmed as present within six bonded fragment samples, encountered in during test pitting (**Table A** and **Figure 5**).

<u>Asbestos Fines and Fibrous Asbestos (AF/FA)</u>

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

8.2.2 Heavy Metals

Concentrations of heavy metals in analysed samples were generally reported to be below the laboratory limit of reporting (LOR) and/or less than the adopted health and ecological based site assessment criteria, with the exception of zinc in sample TP23_0-0.1, which exceeded the site specific EIL (960 mg/kg) at 1400 mg/kg. The reported zinc value was greater than 250 % of the adopted ecological criteria of 420 mg/kg, and as a result the requirements for the use of the 95 % UCL statistical method were not met.

8.2.3 PAHs

Concentrations of PAHs in all analysed samples were reported below the laboratory LOR and adopted site assessment criteria.

8.2.4 TRH

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

F2 (C10-C16 less Naphthalene) was reported in interlaboratory sample QA202200810-01, of primary sample TP24-0-0.1, with a concentration of 130 mg/kg, exceeding the adopted ecological (ESL) site criterion (120 mg/kg).

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

As such, the ESL exceedance in sample QA202200810-01 is not considered to be statistically significant. The 95% UCL statistical analyses report is included in **Appendix H**.

8.2.5 BTEX

Concentrations of BTEX in all analysed samples were reported below the laboratory LOR and adopted site assessment criteria.

8.2.6 VOCs

Concentrations of VOCs in all analysed samples were reported below the laboratory LOR and adopted site assessment criteria.

8.2.7 E.Coli and Faecal Coliforms

Concentrations of E.coli and faecal coliforms in all analysed samples were reported below the laboratory LOR and adopted site assessment criteria.

8.2.8 OCPs

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

8.2.9 PCBs

Concentrations of PCBs in all samples selected for analysis were reported below the laboratory LOR and adopted site assessment criteria.

8.3 Preliminary In-Situ Waste Classification

Soil observations and analytical results were assessed with consideration to EPA (2014) *Waste Classification Guidelines* General Solid Waste (GSW) criteria, with preliminary findings presented in **Table C**.

Most topsoil/fill material had been identified to contain ACM or surficial ACM, therefore, these materials would be considered Special Waste (asbestos), unless further assessment confirms otherwise.

The majority of chemical contaminant concentrations were reported below the GSW contaminant thresholds (CT1), with the exception of lead at two locations with concentrations ranging from 140 mg/kg to 210 mg/kg (above 100 mg/kg CT1 criterion). It is noted these concentrations are below the GSW Specific Contaminant Threshold (SCC1) when combined with leachability test results as described below.

The samples with the highest concentration for lead were subject to Toxicity Characteristic Leaching Procedure (TCLP) analysis, with results below the GSW TCLP1 criterion, as presented in **Table D**, and noting the lead in soil concentrations were below GSW SCC1 criterion. The results indicate that should soil require off-site disposal it may be classified as Special (Asbestos) Waste mixed with GSW.

Waste classification should be confirmed prior to removal of any soil from the site.

8.4 Groundwater Field Observations

A groundwater monitoring event (GME) sampling the newly installed wells (MW01, MW02, MW03 and MW04) was conducted on 11 August 2022. Groundwater monitoring well locations are provided on **Figure 4** and shown in **Photograph 35**, **Appendix B**. Details of depths to groundwater and other geospatial characteristics are summarised in **Table 8.1** below. A summary of groundwater conditions encountered during the GME is presented in **Photograph 36**, **Appendix B**, **Tables 8.2** and **8.3** below.

Table 8.1 Groundwater Geospatial Details

Well Reference	Well Monument Height (m)	Seepage During Drilling (m bgs)	Seepage Post Drilling (m bgs)	Depth to Groundwater (m bgs)	Depth to End of Well (m bgs)
MW01	0.690	4.8 - 6.4	4.2	Dry	4.56
MW02	0.780	6.0 - 7.5	4.4	Dry	4.758
MW03	0.725	5.6 - 7.5	4.9	4.799	5.95
MW04	0.725	4.5 - 7.5	3.2	3.788	5.926

Table 8.2 Groundwater Field Physicochemical Parameters

Well Reference	Dissolved Oxygen (mg/L)	Electrical Conductivity (µS/cm)	pH (units)	Oxidation Reduction Potential (mV)	Temperature (°C)
MW01	-	-	-	-	-
MW02	-	-	-	-	-
MW03	10.01	15.0	8.29	593.8	21.8
MW04	10.77	15.9	8.75	352.9	17.4

Review of the field parameters as presented above indicates that the groundwater is fresh, mildly basic, and under oxidising/aerobic conditions.

Monitoring wells MW01 and MW02 were dry and precluded sampling during the groundwater monitoring event.

Table 8.3 Groundwater Observations

Well Reference	Odour	Sheen	Turbidity	Light non-aqueous phase liquid (LNAPL)
MW01	-	-	-	-
MW02	-	-	-	-
MW03	No odour	No sheen	Slightly turbid	None observed
MW04	No odour	No sheen	Moderately turbid	None observed

8.5 Groundwater Analytical Results

Detailed laboratory reports and chain of custody documentation are provided in **Appendix G.** Summarised groundwater analytical data for COPCs are presented in **Table B** and groundwater exceedances are shown on **Figure 5**, as discussed in the following sections.

8.5.1 Metals

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

- Arsenic concentrations (ranging from 0.023 to 0.025 m g/L) detected in MW03, inter and intra-laboratory samples QA-MW and QC-MW (of parent sample MW03) and MW04, exceeding the freshwater 95% DGV (0.013 mg/L);
- Chromium concentration detected in QA-MW (0.002 mg/L) and MW04 (0.002 mg/L) exceeding the freshwater 95% DGV (0.001 mg/L);
- Copper concentrations (ranging from 0.004 to 0.015 m g/L) detected in MW03, QA-MW, QC-MW and MW04, exceeding the freshwater 95% DGV (0.0014 mg/L); and
- Zinc concentration detected in QC-MW (0.018 mg/L) and MW04 (0.011 mg/L) exceeding the freshwater 95% DGV (0.008 mg/L).

8.5.2 TRH and VOC

TRH and VOC compounds were reported below the laboratory LOR or below the adopted site assessment criteria in all samples.

8.5.3 PAHs

PAH compound concentrations were reported below the laboratory LOR.

8.5.4 PFAS

<u>Groundwater:</u>

Individual PFAS compounds were all reported less than the laboratory LOR.

<u>Hydrant Points:</u>

Individual PFAS compounds were all reported less than the laboratory LOR.

8.5.5 Environmental Parameters

Environmental parameters including cation/anion, hardness, pH, ecological conductivity (EC) were analysed as part of the hydrogeological assessment. The EC values (2400 to 4800 µS/cm) correlate with brackish to moderately saline waters.

Site Characterisation

Based on the decision-making process for assessing urban redevelopment sites detailed in EPA (2017), the decisions required to be made are discussed below. In reference to the decision rules developed in **Section 5.1.2**, the following sections discuss potential risks posed to future on-site receptors from impacted media present at the site.

8.6 Are there any unacceptable risks to future onsite receptors?

Representative samples of soil analysed for identified COPCs were reviewed against established site assessment criteria. Visible ACM fragments were observed on ground surfaces and in surface soil across large portions of the site to the north, southeast and southwest, and with the potential to be present on/in surface soil around structures, as shown on **Figure 3**. These occurrences exceed the NEPC (2013) HSL of 'no visible asbestos in surface soil' and pose a potentially unacceptable risk to human health particularly where surface ACM becomes weathered or abraded such that respirable asbestos fibres could be released and become airborne. Visible ACM was also identified in fill at six investigation locations, as shown on **Figure 5**, typically as isolated fragments except at TP32 where fragments coincided with a layer of anthropogenic material. The ACM was observed from surface at four of these six locations, exceeding the surface asbestos HSL. The concentrations of ACM fragments in 20L bulk soil samples by field quantification were below HSL except for TP32. ACM in subsurface fill poses a potential health risk where ACM becomes exposed through uncontrolled ground disturbance works and respirable asbestos fibres are released and become airborne.

The majority of chemical COPCs in soil characterisation samples were reported at concentrations less than the adopted ecological criteria with the exception of zinc reported in sample TP23-0-0.1 with a concentration of 1400 mg/kg, exceeding the site specific EIL of 960 mg/kg, and TRH fraction F2 (C10-C16 less Naphthalene) reported in TP24-0-0.1, with a concentration of 130 mg/kg, exceeding the adopted ESL of 120 mg/kg.

The zinc reported value was greater than 250 % of the adopted EIL, and as a result the requirements for the use of the 95 % UCL statistical method were not met. However, this zinc exceedance is not considered likely to pose a potentially unacceptable ecological risk as at the time of the inspection there were no visible adverse effects observed in vegetation in the area (i.e. no stressed grass/trees). As such, the zinc exceedances do not present an unacceptable ecological risk for hospital land use.

Statistical analysis was undertaken for the TRH F2 fraction exceedance and have indicated that the exceedance was not statistically significant with regard to the population data set. This is consistent with the marginal exceedance reported. As such, the TRH exceedance is considered not to pose an unacceptable risk that requires management or remediation.

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

8.7 Background Soil Concentrations

Soil results in natural soil indicate there are no issues relating to local area background conditions that require consideration with respect to the suitability of the site.

8.8 Chemical Mixtures

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

8.9 Aesthetic Issues

Visible asbestos was identified in surface soils and in fill at some locations across the site and are considered to pose an aesthetic issue with respect to the future land use proposed.

No significant odours or staining associated with potential contamination were noted during the investigation works completed at the site. No significant anthropogenic materials were observed during the investigations within the site, with the exception of anthropogenic material observed within TP32. This is noted to be within the raised levee which is understood to be excluded from the development footprint.

8.10 Potential Migration of Contaminants

The potential for migration of COPCs from the site is considered to be low based upon the general absence of chemical contaminants in soil. Where ACM was reported in and on soil, the fragments were non-friable. No friable asbestos was detected above the LOR/site assessment criteria in 50 soil samples and as such fibre release and migration is considered to be a low risk under ambient site conditions. However, where ACM in surface soils or during uncontrolled ground disturbance works becomes abraded there is a potential for asbestos fibres to be released and become airborne where they could migrate to other areas of the site or offsite in dust.

Based on the findings of the groundwater assessment including the absence of groundwater contamination, the potential for COPC migration to groundwater or off-site migration of contamination via surface water/groundwater is considered to be low.

8.11 Site Management Strategy

Based on the results of the investigation, it is considered that remediation or a site management strategy is required to address identified bonded ACM contamination.

8.11.1 Redevelopment Footprint

A Remedial Action Plan (RAP) should be prepared for the redevelopment footprint, as indicated on the concept sketches (**Appendix A**), to manage the identified soil impacts. An asbestos management plan (AMP) is also required to manage identified asbestos to meet Work Health and Safety (WHS) Regulations.

It is noted that no intrusive investigations were able to be undertaken within building footprints as part of the DSI due to the operational nature of these buildings at the time of site investigation. Additionally, the review of previous reports and a recent JBS&G HBMS (JBS&G 2022b[14]), conducted concurrently with this DSI, have identified hazardous materials within buildings currently located onsite. As a result, it is recommended that characterisation sampling of soils beneath the building footprints of is conducted following demolition but before commencement of bulk excavation. If contamination is identified beneath the building footprints, there may be a requirement for a site management strategy.

8.11.2 LHD Land Outside of Redevelopment Footprint

An asbestos management plan (AMP) should be prepared for the LHD site external to the developable footprint, to manage identified asbestos to meet Work Health and Safety (WHS) Regulations. An Interim Site Management Plan has been prepared by JBS&G (JBS&G 2022c[15]) and implemented by the LHD, to manage HSL exceedances of bonded ACM within the accessible soils of

[14] *Pre-Demolition Hazardous Building Materials Survey, Wentworth Health Services Facility, Wentworth, NSW*, JBS&G Australia Pty Ltd, Rev A, 9 September 2022, Ref: 63097/147383 (JBS&G 2022b)

[15] *Interim Site Management Plan (Draft), Wentworth Health Services Facility Wentworth, NSW*, JBS&G Australia Pty Ltd, Rev B, 26 August 2022, Ref: 63097/147092 (JBS&G 2022c)

the site, until such a time that permanent remedial strategies that will eliminate or isolate the risk of exposure are designed, installed and verified as successful.

9. Conclusions and Recommendations

9.1 Conclusions

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

- The site history review identified that the site was historically as a health care facility since the late 1800s.
- The review of historical site use information, previous reports and inspection of site conditions identified potential AECs and associated COPCs, which were associated with potential importation of fill materials from unknown origins, hazardous materials associated with historical demolition, refurbishment and construction works, biological COPCs related to sewer infrastructure, PFAS from fire hydrants, and the application of pesticides for maintenance of vegetated areas.
- Bonded ACM was encountered on the ground surface and in surface soil in large areas of the site to the north, southeast and southwest, exceeding adopted HSL, with potential for surface asbestos to be present on/in surface soil around existing structures.
- Bonded ACM was encountered within fill in six test pit locations, including surface soil at four of the locations, exceeding adopted HSLs;
- Laboratory analysis of selected soil samples indicated that asbestos fines or fibrous asbestos (AF/FA) and ACM were not detected above of laboratory LOR in any of the samples analysed;
- No friable asbestos was detected above the LOR/site assessment criteria in all soil samples and as such fibre release and migration is considered a low risk, except where uncontrolled ground disturbance works may disturb ACM causing release of respirable fibres;
- Concentrations of other COPCs were not identified at levels posing an unacceptable risk to human or ecological receptors relating to the proposed redevelopment of the site.
- Bonded ACM encountered on/in surface soils and in fill at some locations across the site are considered to pose a potentially unacceptable health risk and an aesthetic issue with respect to the future land use proposed. No other significant aesthetic issues (odours or staining) were identified;
- Concentrations of arsenic, chromium, copper, and zinc reported in groundwater are considered indicative of naturally occurring background levels and potential for COPC migration to groundwater or off-site migration of contamination via surface water/groundwater is considered to be low;
- PFAS were not reported in groundwater or in samples from the on-site fire hydrant system;
- No soil background issues or chemical mixtures, or significant offsite migration risks were identified;
- Based on the findings of the investigation, and subject to the limitations in **Section 11**, it is concluded that the site can be made suitable for the proposed ongoing hospital use subject to implementation of a suitable management strategy.

9.2 Recommendations

9.2.1 Redevelopment Footprint

- It is recommended that a pre-remedial assessment, including the characterisation of soils beneath existing building footprints, is completed following demolition and prior to site remedial works;
- It is recommended that a RAP should be prepared for the redevelopment footprint to manage the identified soil impacts. The report would address:
  - Typical site management controls including protocols to manage unexpected finds if encountered during any ground disturbance works associated with future site development; and
  - Remediation and validation actions including validation sampling, analysis and quality planning to enable the site to be considered suitable for proposed land use.
- It is recommended that a Redevelopment Asbestos Management Plan (RAMP) be prepared for the redevelopment footprint, detailing the safe implementation of the RAP in undertaking asbestos removal, as guided by the WHS regulatory framework (SafeWork NSW).

9.2.2 LHD Land

An AMP should be prepared for the LHD site external to the developable footprint, where the site is a workplace, to manage identified asbestos to meet Work Health and Safety (WHS) Regulations, until such time as identified asbestos risks have been removed. Removal of risk would include permanent remedial strategies that eliminate or isolate the risk of exposure which are designed, installed and verified as successful.

10. Limitations

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

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

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

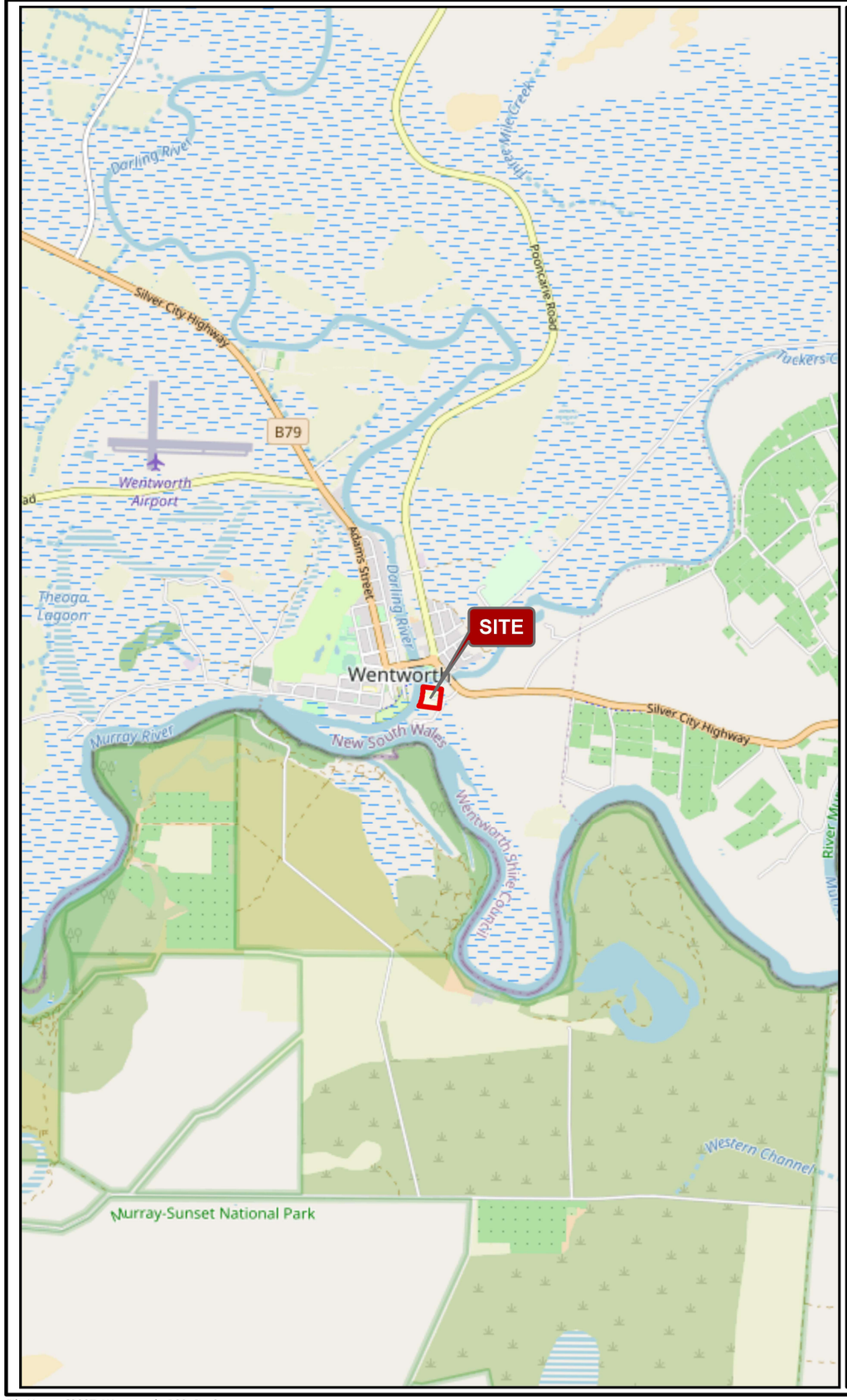
Sampling and chemical analysis of environmental media is based on appropriate guidance documents made and approved by the relevant regulatory authorities. Conclusions arising from the review and assessment of environmental data are based on the sampling and analysis considered appropriate based on the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

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

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

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

Figures



Legend:

- Approximate Site Boundary
- NSW Cadastre
- Hydro Line

JBS&G

Job No: 63097

Client: Health Infrastructure

Version: R02 Rev 0	Date 30/06/2023
Drawn By: LJ	Checked By: GP

Scale 1:75,000 and 1:30,000

0 500 1,000 metres and 0 250 500 metres

Coord. Sys. GDA 1994 MGA Zone 54

24 Hospital Road
Wentworth, NSW

SITE LOCATION

FIGURE 1

File Name: 63097_Wentworth_R02_Rev0
Reference: © OpenStreetMap (and) contributors, CC-BY-SA

Legend:

- Approximate Site Boundary
- Wentworth LHD Footprint
- NSW Cadastre
- Hydro Line

Site Features

- Building Outline

Building Usage

01. Wentworth Health Services Building (Hospital)
02. Old Boiler House
03. Old Pump Shed/Room
04. Old Dirty Linen
05. Contaminated Waste
06. Staff Amenities Block
07. Maintenance Storage Shed
08. Infectious Waste/Old Morgue
09. Maintenance Workshop
10. Emergency Generator Shed
11. Carports/Storage Shed
12. Old Nurses Home (Condemned)
13. Uni Staff Quarters/Accommodation/USYD
14. Senior Activity Centre/Physio/Community Centre
15. Staff Accommodation
16. LPG Gas Storage
17. Pump Station (PS07) Control Panel Shed

JBS&G

Job No: 63097

Client: Health Infrastructure

Version: R02 Rev 0	Date 30/06/2023
Drawn By: LJ	Checked By: GP

Scale 1:1,300

0 25 50
metres

Coord. Sys. GDA 1994 MGA Zone 54

24 Hospital Road
Wentworth, NSW

SITE IDENTIFICATION

FIGURE 2

File Name: 63097_Wentworth_R02_Rev0
Reference: Nearmap www.nearmap.com 20220706

Legend:

- Approximate Site Boundary
- Wentworth LHD Footprint
- NSW Cadastre
- Hydro Line

Site Features

- Emergency Generator Shed
- Firefighting Related Infrastructure
- Infectious Waste/Old Morgue
- Old Dirty Linen
- Old Septic & Triple Interceptor
- Sewer Pump Station
- Historical Orchards and Visible Ground Disturbance
- ACM on Ground Surface
- Topsoil Surface Scrape
- Inferred ACM Pipe Trajectory

JBS&G

Job No: 63097

Client: Health Infrastructure

Version: R02 Rev 0	Date 30/06/2023
Drawn By: LJ	Checked By: GP

Scale 1:1,300

0 10 20
metres

Coord. Sys. GDA 1994 MGA Zone 54

24 Hospital Road
Wentworth, NSW

AREAS OF ENVIRONMENTAL CONCERN

FIGURE 3

File Name: C:\Users\\prohm\JBS&G Australia\JBS&G - DCS - Internal - Projects\Health Infrastructure\63097 Wentworth Health Services Redevelopment\GIS\02_MapProjects\63097_Wentworth_R02_Rev0.aprx
Reference: Nearmap www.nearmap.com 20220706

Legend:

- Approximate Site Boundary
- Wentworth LHD Footprint
- NSW Cadastre
- Hydro Line

Sample Locations

- Monitoring Well (JBS&G 2022)
- Soil Sample Location (JBS&G 2022)
- Hydrant Point

JBS&G

Job No: 63097

Client: Health Infrastructure

Version: R02 Rev 0	Date 30/06/2023
Drawn By: LJ	Checked By: GP

Scale 1:1,300

0 10 20
metres

Coord. Sys. GDA 1994 MGA Zone 54

24 Hospital Road
Wentworth, NSW

SOIL AND GROUNDWATER SAMPLE LOCATIONS

FIGURE 4

File Name: C:\Users\lprohm\JBS&G Australia\JBS&G - DCS - Internal - Projects\Health Infrastructure\63097 Wentworth Health Services Redevelopment\GIS\02_MapProjects\63097_Wentworth_R02_Rev0.aprx
Reference: Nearmap www.nearmap.com 20220706

TP23 0-0.1	Date	Concentration (mg/kg)	Criteria
Analyte			
Zinc	10/08/2022	1400	NEPC 2013 EIL, Site Specific*

MW04	Date	Concentration (mg/L)	Criteria
Analyte			
Arsenic	11/08/2022	0.023	ANZG (2018) Freshwater 95% toxicant DGVs
Chromium (III+VI)	11/08/2022	0.002	
Copper	11/08/2022	0.007	
Zinc	11/08/2022	0.011	

MW03 (Primary)	Date	Concentration (mg/L)	Criteria
Analyte			
Arsenic	11/08/2022	0.024	ANZG (2018) Freshwater 95% toxicant DGVs
Copper	11/08/2022	0.015	
QA-MW (Triplicate)	**Date**	**Concentration (mg/L)**	**Criteria**
Analyte			
Arsenic	11/08/2022	0.025	ANZG (2018) Freshwater 95% toxicant DGVs
Chromium (III+VI)	11/08/2022	0.002	
Copper	11/08/2022	0.006	
QC-MW (Duplicate)	**Date**	**Concentration (mg/L)**	**Criteria**
Analyte			
Arsenic	11/08/2022	0.023	ANZG (2018) Freshwater 95% toxicant DGVs
Copper	11/08/2022	0.004	
Zinc	11/08/2022	0.018	

Legend:

- Approximate Site Boundary
- Wentworth LHD Footprint
- NSW Cadastre
- Hydro Line

Sample Locations

- Monitoring Well (JBS&G 2022)
- Soil Sample Location (JBS&G 2022)
- Hydrant Point
- Bonded Asbestos Observed in Fill

JBS&G

Job No: 63097

Client: Health Infrastructure

Version: R02 Rev 0 | Date 30/06/2023

Drawn By: LJ | Checked By: GP

Scale 1:1,500

0 10 20
metres

Coord. Sys. GDA 1994 MGA Zone 54

24 Hospital Road
Wentworth, NSW

SOIL AND GROUNDWATER SAMPLE EXCEEDANCES

FIGURE 5

File Name: C:\Users\lprohm\JBS&G Australia\JBS&G - DCS - Internal - Projects\Health Infrastructure\63097 Wentworth Health Services Redevelopment\GIS\02_MapProjects\63097_Wentworth_R02_Rev0.aprx
Reference: Nearmap www.nearmap.com 20220706

Table A – Soil Analytical Results

Table A: Soil Analytical Data
Project Number: 63097
Project Name: Wentworth Health Services Redevelopment

Field ID	Sampled Date Time	Matrix Description	Lab Report Number	Arsenic	Cadmium	Chromium (III+VI)	Copper	Iron	Lead	Mercury	Nickel	Zinc	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum of Total)	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total
				Metals & Metalloids									TPHs (NEPC 1999)					TRHs (NEPC 2013)							BTEXN					
				mg/kg	mg/kg	mg/kg	mg/kg	MG/KG	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				2	0.4	5	5	20	5	0.1	5	5	20	20	50	50	50	20	50	100	100	100	20	50	0.1	0.1	0.1	0.1	0.2	0.3
NEPC 2013 EIL, Site Specific*				100		400	230		1100		330	960																		
NEPM 2013 Table 1A(1) HILs Res B Soil				500[#1]	150	500[#2]	30000		1200[#3]	120[#4]	1200	60000																		
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay																														
0-1m																							50[#8]	280[#9]	0.7[#10]	480[#10]	NL[#10]			110[#10]
1-2m																							90[#8]	NL[#9]	1[#10]	NL[#10]	NL[#10]			310[#10]
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																				1300[#16]	5600[#16]		180[#17]	120[#18]	65[#16]	105[#16]	125[#16]			45[#16]
NEPM 2013 Table 7 Res B Soil HSL for Asbestos in Soil																														
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																		800	1000	3500	10000									

Field ID	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ calc (Zero)	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)
	PAH																				
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NEPC 2013 EIL, Site Specific*																		170			
NEPM 2013 Table 1A(1) HILs Res B Soil						4[#5]	4[#5]	4[#5]													400[#6]
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay																					
0-1m																		5[#10]			
1-2m																		NL[#10]			
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil					0.7[#16]																
NEPM 2013 Table 7 Res B Soil HSL for Asbestos in Soil																					
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																					
FRAG-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRAG-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS01-0-0.1	<0.5	<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
TP01-0-0.1	<0.5	<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
TP01-0-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP01-0.5-0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02-0-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03-0-0.1	<0.5	<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
FRAG_TP03-0-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03-0-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04-0-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05-0-0.1	<0.5	<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
TP06-0-0.1 (Primary)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA202200809-01 (Triplicate)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC202200809-01 (Duplicate)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP07-0.5-0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP07-0-0.1	<0.5	<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
TP08-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP09-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP09-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP10-0-0.1	<0.5	<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
TP11-0-0.1	<0.5	<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
TP11-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP12-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP13-0-0.1	<0.5	<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
TP14-0-0.1	<0.5	<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
TP14-0-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP15-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP15-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP16-0.3-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP16-0-0.1	<0.5	<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
TP17-0-0.1	<0.5	<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
TP17-0-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP18-0-0.1	<0.5	<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
TP18-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP19-0.3-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP19-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP20-0-0.1	<0.5	<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
TP21-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP22-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP23-0-0.1	<0.5	<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
TP24-0-0.1 (Primary)	<0.5	<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
QA202200810-01 (Triplicate)	<0.1	<0.1	<0.1	<0.1	<0.05	<0.5	<0.5	<0.5	-	<0.2	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05
QC20220810-01 (Duplicate)	<0.5	<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
TP25-0.2-0.25	<0.5	<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
TP25-0-0.1	<0.5	<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
TP25-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP26-0.5-0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP26-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP27-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP27-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP28-0-0.1	<0.5	<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
TP28-0-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP29-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP29-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP30-0-0.1	<0.5	<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
TP30-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP31-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP32-0.2-0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP32-0.5-0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP32-0-0.1	<0.5	<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
TP32-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP32-0.5-0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRAG_TP32-0.5-0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP33-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRAG_TP33-0-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP33-0-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP34-0-0.1	<0.5	<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

Table A: Soil Analytical Data
Project Number: 63097
Project Name: Wentworth Health Services Redevelopment

	Metals & Metalloids									TPHs (NEPC 1999)				
	Arsenic	Cadmium	Chromium (III+VI)	Copper	Iron	Lead	Mercury	Nickel	Zinc	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum of Total)
	mg/kg	mg/kg	mg/kg	mg/kg	MG/KG	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	2	0.4	5	5	20	5	0.1	5	5	20	20	50	50	50
NEPC 2013 EIL, Site Specific*	100		400	230		1100		330	960					
NEPM 2013 Table 1A(1) HILs Res B Soil	500#1	150	500#2	30000		1200#3	120#4	1200	60000					
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay														
0-1m														
1-2m														
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil														
NEPM 2013 Table 7 Res B Soil HSL for Asbestos in Soil														
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil														

	TRHs (NEPC 2013)							BTEXN					
	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	20	50	100	100	100	20	50	0.1	0.1	0.1	0.1	0.2	0.3
NEPC 2013 EIL, Site Specific*													
NEPM 2013 Table 1A(1) HILs Res B Soil													
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay													
0-1m						50#8	280#9	0.7#10	480#10	NL#10			110#10
1-2m						90#8	NL#9	1#10	NL#10	NL#10			310#10
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil			1300#16	5600#16		180#17	120#18	65#16	105#16	125#16			45#16
NEPM 2013 Table 7 Res B Soil HSL for Asbestos in Soil													
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil	800	1000	3500	10000									

	PAH																					
	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ calc (Zero)	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NEPC 2013 EIL, Site Specific*																		170			
NEPM 2013 Table 1A(1) HILs Res B Soil						4#5	4#5	4#5													400#6
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay																					
0-1m																		5#10			
1-2m																		NL#10			
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil					0.7#16																
NEPM 2013 Table 7 Res B Soil HSL for Asbestos in Soil																					
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																					

Field ID	Sampled Date Time	Matrix Description	Lab Report Number	Arsenic	Cadmium	Chromium (III+VI)	Copper	Iron	Lead	Mercury	Nickel	Zinc	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum of Total)
TP34-0-0.4	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP35-0.5-0.6	10/08/2022	Natural - Sandy Clay	914805	-	-	-	-	30,000	-	-	-	-	-	-	-	-	-
TP35-0-0.1	10/08/2022	Fill - Silty Clay	914805	3.4	<0.4	35	18	-	36	<0.1	22	94	-	-	-	-	-
TP36-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP37-0-0.1	10/08/2022	Fill - Silty Clay	914805	3.3	<0.4	36	19	-	20	<0.1	21	69	<20	<20	<50	<50	<50
TP38-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP39-0-0.1	10/08/2022	Fill - Silty Clay	914805	3.6	<0.4	27	15	-	14	<0.1	18	51	-	-	-	-	-
TP39-0-0.3	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP40-0-0.1	10/08/2022	Fill - Silty Clay	914805	2.1	<0.4	15	8.4	-	9.6	<0.1	9.9	35	<20	<20	<50	<50	<50
TP40-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP41-0-0.1	10/08/2022	Fill - Silty Clay	914805	2.4	<0.4	20	12	-	33	<0.1	15	67	-	-	-	-	-
FRAG_TP41-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP42-0-0.1	10/08/2022	Fill - Silty Clay	914805	2.9	<0.4	7.5	11	-	<5	<0.1	8.4	9.9	<20	<20	<50	<50	<50
HA43-0-0.1	11/08/2022	Fill - Silty Clay	914805	8	<0.4	21	14	-	27	<0.1	14	86	-	-	-	-	-
HA44-0-0.1	11/08/2022	Fill - Silty Clay	914805	<2	<0.4	<5	<5	-	40	<0.1	<5	14	-	-	-	-	-
HA45-0-0.1	11/08/2022	Fill - Silty Clay	914805	3.5	<0.4	19	22	-	24	<0.1	13	120	-	-	-	-	-
BH46-0-0.1	11/08/2022	Fill - Silty Sandy Clay	914805	2.5	<0.4	15	16	-	56	<0.1	12	130	-	-	-	-	-
HA47-0-0.1	11/08/2022	Fill - Silty Sand	914805	<2	<0.4	<5	34	-	<5	<0.1	<5	110	-	-	-	-	-
HA47-0-0.2	11/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA48-0-0.1	11/08/2022	Fill - Gravelly Silty Sand	914805	2.2	<0.4	11	17	-	27	<0.1	7.7	130	<20	<20	<50	<50	<50
HA49-0-0.1	11/08/2022	Fill - Silty Sand	914805	3.5	<0.4	14	21	-	140	<0.1	9.3	120	-	-	-	-	-
HA50-0-0.1 (Primary)	11/08/2022		914805	3.4	<0.4	20	26	-	24	0.2	12	130	-	-	-	-	-
QA202200811-01 (Triplicate)	11/08/2022	Fill - Silty Sand	303323	<4	<0.4	11	27	-	23	0.3	9	100	-	-	-	-	-
QC202200811-01 (Duplicate)	11/08/2022		914805	2.9	<0.4	19	23	-	22	0.1	11	110	-	-	-	-	-

Field ID	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total
TP34-0-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-
TP35-0.5-0.6	-	-	-	-	-	-	-	-	-	-	-	-	-
TP35-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TP36-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TP37-0-0.1	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
TP38-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TP39-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TP39-0-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-
TP40-0-0.1	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
TP40-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TP41-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
FRAG_TP41-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TP42-0-0.1	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
HA43-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
HA44-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
HA45-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
BH46-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
HA47-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
HA47-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-
HA48-0-0.1	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
HA49-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
HA50-0-0.1 (Primary)	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
QA202200811-01 (Triplicate)	-	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	-
QC202200811-01 (Duplicate)	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3

Field ID	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ calc (Zero)	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)
TP34-0-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP35-0.5-0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP35-0-0.1	<0.5	<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
TP36-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP37-0-0.1	<0.5	<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
TP38-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP39-0-0.1	<0.5	<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
TP39-0-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP40-0-0.1	<0.5	<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
TP40-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP41-0-0.1	<0.5	<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
FRAG_TP41-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP42-0-0.1	<0.5	<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
HA43-0-0.1	<0.5	<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
HA44-0-0.1	<0.5	<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
HA45-0-0.1	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	0.6
BH46-0-0.1	<0.5	<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
HA47-0-0.1	<0.5	<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
HA47-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA48-0-0.1	<0.5	<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
HA49-0-0.1	<0.5	<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
HA50-0-0.1 (Primary)	<0.5	<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
QA202200811-01 (Triplicate)	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.2	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05
QC202200811-01 (Duplicate)	<0.5	<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

Statistical Summary

	Arsenic	Cadmium	Chromium (III+VI)	Copper	Iron	Lead	Mercury	Nickel	Zinc	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum of Total)
Number of Results	39	39	39	39	5	39	39	39	39	22	22	22	22	22
Number of Detects	32	0	37	38	5	37	7	36	39	0	4	6	7	8
Minimum Concentration	<2	<0.4	<5	<5	23000	<5	<0.1	<5	9.9	<20	<20	<50	<50	<50
Minimum Detect	2.1	ND	6	7.6	23000	5.2	0.1	5.6	9.9	ND	22	60	80	81
Maximum Concentration	8	<0.4	49	81	30000	210	0.7	27	1400	<25	83	690	570	1290
Maximum Detect	8	ND	49	81	30000	210	0.7	27	1400	ND	83	690	570	1290
Average Concentration	3.2	0.2	19	18	27400	29	0.087	12	109	10	18	98	92	180
Median Concentration	3.2	0.2	19	15	28000	18	0.05	12	61	10	10	25	25	25
Standard Deviation	1.5	0	9.7	12	2966	38	0.12	5.5	217	0.53	18	176	140	329
Number of Guideline Exceedances	0	0	0	1	0	0	0	0	16	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	1	0	0	0	0	16	0	0	0	0	0

	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total
Number of Results	22	22	22	22	22	22	22	27	27	27	27	27	26
Number of Detects	0	4	6	4	6	0	4	0	0	0	0	0	0
Minimum Concentration	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
Minimum Detect	ND	56	110	120	110	ND	56	ND	ND	ND	ND	ND	ND
Maximum Concentration	<25	130	1300	450	1870	<25	130	<0.2	<0.5	<1	<1	<2	<1
Maximum Detect	ND	130	1300	450	1870	ND	130	ND	ND	ND	ND	ND	ND
Average Concentration	10	37	179	90	241	10	37	0.054	0.065	0.083	0.083	0.17	0.16
Median Concentration	10	25	50	50	50	10	25	0.05	0.05	0.05	0.05	0.1	0.15
Standard Deviation	0.53	30	314	100	464	0.53	30	0.013	0.053	0.12	0.12	0.24	0.069
Number of Guideline Exceedances	0	0	1	0	0	0	2	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	1	0	0	0	2	0	0	0	0	0	0

	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ calc (Zero)	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)
Number of Results	39	39	39	39	39	39	39	37	2	39	37	39	39	39	39	39	39	39	39	39	39
Number of Detects	0	0	0	0	0	37	37	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Minimum Concentration	<0.5	<0.5	<0.5	<0.1	<0.05	<0.5	<0.5	<0.5	<0.5	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05
Minimum Detect	ND	ND	ND	ND	ND	1.2	0.6	ND	ND	ND	ND	ND	ND	ND	0.6	ND	ND	ND	ND	ND	0.6
Maximum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	0.6
Maximum Detect	ND	ND	ND	ND	ND	1.2	0.6	ND	ND	ND	ND	ND	ND	ND	0.6	ND	ND	ND	ND	ND	0.6
Average Concentration	0.24	0.24	0.24	0.24	0.24	1.2	0.58	0.25	0.25		0.24	0.25	0.24	0.24	0.25	0.24	0.24	0.24	0.24	0.24	0.25
Median Concentration	0.25	0.25	0.25	0.25	0.25	1.2	0.6	0.25	0.25	0.1	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Standard Deviation	0.045	0.045	0.045	0.045	0.05	0.21	0.078	0	0		0.045	0	0.045	0.045	0.073	0.045	0.045	0.045	0.045	0.045	0.077
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Env Stds Comments

#1:Arsenic: HIL assumes 70% oral bioavailability. Site-specific bioavailability maybe important and should be considered where appropriate (refer Shedule B7).
#2:Trigger Value adopted from Chromium (VI)
#3:Lead: HILs A,B,C based on blood lead models (IEUBK & HIL D on adult lead model for where 50% bioavailability considered. Site-specific bioavailability should be considered where appropriate.
#4:Elemental mercury: HIL does not address elemental mercury. a site specific assessment should be considered if elemental mercury is present, or suspected to be present.
#5:Carcinogenic PAHs: HIL based on 8 carc. PAHs & their TEFs (rel to BaP ref Schedule 7) BaP TEQ calc by multiplying the conc of each carc. PAH in sample by its BaP TEF (ref Table 1A(1)) & summing
#6:Total PAHs: Based on sum of 16 most common reported (WHO 98). HIL application should consider presence of carcinogenic PAHs (should meet BaP TEQ HIL) & napthalene (should meet relevant HSL)
#7:PCBs: HIL refers to non-dioxin like PCBs only. Where PCB source is known, or suspected at a site, a site-specific assessment of exposure to all PCBs (inc dioxin like PCBs) should be undertaken
#8:Derived soil HSL exceeds soil saturation concentraiton. To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10 fraction.
#9:Derived soil HSL exceeds soil saturation concentraiton. To obtain F2 subtract naphthalene from the >C10-C16 fraction
#10:Derived soil HSL exceeds soil saturation concentraiton
#11:Aged values apply to arsenic contamination present in soil > 2 years. Refer Schedule B5c for < 2 years.
#12:Trigger Value taken for Chromium (III), Clay Content of 1%
#13:Trigger Value taken for pH 4.5
#14:Trigger Value taken for CEC 5
#15:Trigger Value taken for pH 4 and CEC 5
#16:ESLs are of low reliability.
#17:ESLs are of moderate reliability. To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10 fraction.
#18:ESLs are of moderate reliability. To obtain F2 subtract napthalene from the >C10 - C16 fraction.
#19:Residential B with minimal opportunities for soil access; includes dwellings with fully and permanently paved yard space such as high-rise buildings and apartments.
#20:Only applies where the FA and AF are able to be quantified by gravimetric procedures (refer Section 4.10). This screening level is not applicable to free fibres.

*Site Specific EILs were calculated based on the average of physiochemical data (pH, TOC, CEC, and percent clay content) obtained from five sample locations (TP01, TP07, TP19, TP26 and TP35). Generic EILs for arsenic, lead, DDT and naphthalene are provided in ASC NEPM (2013).

Data Comments

#1 No asbestos detected at the reporting limit of 0.001% w/w.*Organic fibre detected.No trace asbestos detected.
#2 Chrysotile and amosite asbestos detected.
#3 Chrysotile asbestos detected.
#4 No trace asbestos detected.
#5 Organic fibres detected.
#6 150x80x3
#7 25x20x3
#8 25x20x4
#9 30x20x5
#10 70x25x5
#11 Nil
#12 –

Table A: Soil Analytical Data
Project Number: 63097
Project Name: Wentworth Health Services Redevelopment

JBS&G

				Organochlorine Pesticides																							Chlorinated Alkanes																
				4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	Chlordane (cis)	Chlordane (trans)	DDT	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane	Trichlorofluoromethane
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5
NEPC 2013 EIL, Site Specific*															180																													
NEPM 2013 Table 1A(1) HILs Res B Soil											10	90					600				20			10		500	30																	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay																																												
0-1m																																												
1-2m																																												
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																																												
NEPM 2013 Table 7 Res B Soil HSL for Asbestos in Soil																																												
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																																												
Field ID	**Sampled Date Time**	**Matrix Description**	**Lab Report Number**																																									
FRAG-02	10/08/2022	Surficial Fragment	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRAG-04	11/08/2022	Surficial Fragment	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS01-0-0.1	9/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP01-0-0.1	9/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP01-0-0.3	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP01-0.5-0.6	9/08/2022	Natural - Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02-0-0.1	9/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02-0-0.4	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03-0-0.1	9/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRAG_TP03-0-0.4	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03-0-1.0	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04-0-0.1	9/08/2022	Fill - Silt	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP04-0-0.4	9/08/2022	Fill - Silt	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05-0-0.1	9/08/2022	Fill - Silty Sand	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP06-0-0.1 (Primary)	9/08/2022		914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA202200809-01 (Triplicate)	9/08/2022	Fill - Silty Sand	303323	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220809-01 (Duplicate)	9/08/2022		914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP07-0.5-0.6	9/08/2022	Natural - Sandy Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP07-0-0.1	9/08/2022	Fill - Clayey Sand	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP08-0-0.1	9/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP09-0-0.1	9/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP09-0-0.2	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP10-0-0.1	9/08/2022	Fill - Clayey Sand	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP11-0-0.1	9/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP11-0-0.2	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP12-0-0.1	9/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP13-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP14-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP14-0-0.3	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP15-0-0.1	9/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP15-0-0.2	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP16-0.3-0.4	9/08/2022	Fill - Clayey Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP16-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP17-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP17-0-0.3	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP18-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP18-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP19-0.3-0.4	10/08/2022	Natural - Clayey Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP19-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP20-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP21-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP22-0-0.1	10/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP23-0-0.1	10/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP24-0-0.1 (Primary)	10/08/2022		914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA202200810-01 (Triplicate)	10/08/2022	Fill - Silty Clay	303323	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220810-01 (Duplicate)	10/08/2022		914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP25-0.2-0.25	10/08/2022	Fill - Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP25-0-0.1	10/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP25-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP26-0.5-0.6	10/08/2022	Natural - Sandy Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP26-0-0.1	10/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP27-0-0.1	10/08/2022	Fill - Clayey Sand	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP27-0-0.2	10/08/2022	Fill - Clayey Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP28-0-0.1	10/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP28-0-0.4	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP29-0-0.1	10/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP29-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP30-0-0.1	10/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP30-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP31-0-0.1	10/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP32-0.2-0.5	10/08/2022	Fill - Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP32-0.5-0.7	10/08/2022	Natural - Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP32-0-0.1	10/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP32-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP32-0.5-0.7	10/08/2022	Natural - Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRAG_TP32-0.5-0.7	10/08/2022	Fill - Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP33-0-0.1	10/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRAG_TP33-0-0.4	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP33-0-0.4	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP34-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A: Soil Analytical Data
Project Number: 63097
Project Name: Wentworth Health Services Redevelopment

JBS&G

				Organochlorine Pesticides																							Chlorinated Alkanes																	
				4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	Chlordane (cis)	Chlordane (trans)	DDT	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane	Trichlorofluoromethane
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NEPC 2013 EIL, Site Specific*															180																														
NEPM 2013 Table 1A(1) HILs Res B Soil											10	90					600				20			10		500	30																		
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay																																													
0-1m																																													
1-2m																																													
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																																													
NEPM 2013 Table 7 Res B Soil HSL for Asbestos in Soil																																													
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																																													
Field ID	**Sampled Date Time**	**Matrix Description**	**Lab Report Number**																																										
TP34-0-0.4	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP35-0.5-0.6	10/08/2022	Natural - Sandy Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP35-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP36-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP37-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP38-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP39-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP39-0-0.3	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP40-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP40-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP41-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRAG_TP41-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP42-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HA43-0-0.1	11/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA44-0-0.1	11/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA45-0-0.1	11/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH46-0-0.1	11/08/2022	Fill - Silty Sandy Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA47-0-0.1	11/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA47-0-0.2	11/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA48-0-0.1	11/08/2022	Fill - Gravelly Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA49-0-0.1	11/08/2022	Fill - Silty Sand	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA50-0-0.1 (Primary)	11/08/2022		914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QA202200811-01 (Triplicate)	11/08/2022	Fill - Silty Sand	303323	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
QC202200811-01 (Duplicate)	11/08/2022		914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Statistical Summary																																													
Number of Results				28	28	28	28	28	28	28	26	26	2	2	28	28	28	28	28	28	28	28	26	28	28	28	26	7	7	7	7	7	7	1	7	7	7	1	7	7	7	7	7	6	7
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.025	0.05			0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.025	0.027	0.027	0.027	0.25	0.29	0.29	0.29	0.29	0.29	0.29		0.29	0.29	0.29		0.29	0.29	0.29	0.29	0.29	0.25	0.29
Median Concentration				0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.05	0.05	0.05	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Standard Deviation				0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0	0			0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0	0.0066	0.0066	0.0066	0	0.094	0.094	0.094	0.094	0.094	0.094		0.094	0.094	0.094		0.094	0.094	0.094	0.094	0.094	0	0.094
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table A: Soil Analytical Data
Project Number: 63097
Project Name: Wentworth Health Services Redevelopment

JBS&G

				Chlorinated Alkenes												Solvents	Polychlorinated Biphenyls							
				1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride	Acetone	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NEPC 2013 EIL, Site Specific*																								
NEPM 2013 Table 1A(1) HILs Res B Soil																								1[87]
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay																								
0-1m																								
1-2m																								
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																								
NEPM 2013 Table 7 Res B Soil HSL for Asbestos in Soil																								
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																								
Field ID	**Sampled Date Time**	**Matrix Description**	**Lab Report Number**																					
FRAG-02	10/08/2022	Surficial Fragment	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRAG-04	11/08/2022	Surficial Fragment	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS01-0-0.1	9/08/2022	Fill - Silty Sand	914805	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
TP01-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP01-0-0.3	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP01-0.5-0.6	9/08/2022	Natural - Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP02-0-0.4	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
FRAG_TP03-0-0.4	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03-0-1.0	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04-0-0.1	9/08/2022	Fill - Silt	914805	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP04-0-0.4	9/08/2022	Fill - Silt	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05-0-0.1	9/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP06-0-0.1 (Primary)	9/08/2022		914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
QA202200809-01 (Triplicate)	9/08/2022	Fill - Silty Sand	303323	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
QC20220809-01 (Duplicate)	9/08/2022		914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP07-0.5-0.6	9/08/2022	Natural - Sandy Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP07-0-0.1	9/08/2022	Fill - Clayey Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP08-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP09-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP09-0-0.2	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP10-0-0.1	9/08/2022	Fill - Clayey Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP11-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP11-0-0.2	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP12-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP13-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP14-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP14-0-0.3	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP15-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP15-0-0.2	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP16-0.3-0.4	9/08/2022	Fill - Clayey Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP16-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP17-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP17-0-0.3	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP18-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP18-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP19-0.3-0.4	10/08/2022	Natural - Clayey Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP19-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP20-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP21-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP22-0-0.1	10/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP23-0-0.1	10/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP24-0-0.1 (Primary)	10/08/2022		914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA202200810-01 (Triplicate)	10/08/2022	Fill - Silty Clay	303323	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220810-01 (Duplicate)	10/08/2022		914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP25-0.2-0.25	10/08/2022	Fill - Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP25-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP25-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP26-0.5-0.6	10/08/2022	Natural - Sandy Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP26-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP27-0-0.1	10/08/2022	Fill - Clayey Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP27-0-0.2	10/08/2022	Fill - Clayey Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP28-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP28-0-0.4	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP29-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP29-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP30-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP30-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP31-0-0.1	10/08/2022	Fill - Silty Clay	914805	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP32-0.2-0.5	10/08/2022	Fill - Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP32-0.5-0.7	10/08/2022	Natural - Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP32-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP32-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP32-0.5-0.7	10/08/2022	Natural - Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRAG_TP32-0.5-0.7	10/08/2022	Fill - Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP33-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
FRAG_TP33-0-0.4	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP33-0-0.4	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP34-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	MAH												Miscellaneous Hydrocarbons							Chlorinated Benzenes						
	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene	Total MAH	Bromobenzene	Isopropylbenzene	1,2-dibromoethane	Bromomethane	Cyclohexane	Dibromomethane	Iodomethane	4-Methyl-2-pentanone	Methyl Ethyl Ketone	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	1	1	1	1	0.5	1	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	1	1	0.5	0.5	0.5	0.5	0.05
NEPC 2013 EIL, Site Specific*																									
NEPM 2013 Table 1A(1) HILs Res B Soil																									15
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay																									
0-1m																									
1-2m																									
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																									
NEPM 2013 Table 7 Res B Soil HSL for Asbestos in Soil																									
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																									
FRAG-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRAG-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS01-0-0.1	<0.5	<0.5	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-
TP01-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
TP01-0-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP01-0.5-0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
TP02-0-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
FRAG_TP03-0-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03-0-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04-0-0.1	<0.5	<0.5	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.05
TP04-0-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
TP06-0-0.1 (Primary)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
QA202200809-01 (Triplicate)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1
QC20220809-01 (Duplicate)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
TP07-0.5-0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP07-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
TP08-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
TP09-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
TP09-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP10-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
TP11-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
TP11-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP12-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
TP13-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP14-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP14-0-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP15-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
TP15-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP16-0.3-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP16-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP17-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP17-0-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP18-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP18-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP19-0.3-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP19-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP20-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP21-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP22-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP23-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP24-0-0.1 (Primary)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA202200810-01 (Triplicate)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220810-01 (Duplicate)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP25-0.2-0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP25-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
TP25-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP26-0.5-0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP26-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
TP27-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
TP27-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP28-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
TP28-0-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP29-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
TP29-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP30-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
TP30-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP31-0-0.1	<0.5	<0.5	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.05
TP32-0.2-0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP32-0.5-0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP32-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
TP32-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP32-0.5-0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRAG_TP32-0.5-0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP33-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
FRAG_TP33-0-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP33-0-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP34-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A: Soil Analytical Data
Project Number: 63097
Project Name: Wentworth Health Services Redevelopment

Field ID	Sampled Date Time	Matrix Description	Lab Report Number	Chlorinated Alkenes												Solvents
				1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride	Acetone
				mg/kg	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	1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NEPC 2013 EIL, Site Specific*																
NEPM 2013 Table 1A(1) HILs Res B Soil																
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay																
0-1m																
1-2m																
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																
NEPM 2013 Table 7 Res B Soil HSL for Asbestos in Soil																
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																
TP34-0-0.4	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-
TP35-0.5-0.6	10/08/2022	Natural - Sandy Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-
TP35-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-
TP36-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-
TP37-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-
TP38-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-
TP39-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-
TP39-0-0.3	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-
TP40-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-
TP40-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-
TP41-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-
FRAG_TP41-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-
TP42-0-0.1	10/08/2022	Fill - Silty Clay	914805	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HA43-0-0.1	11/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-
HA44-0-0.1	11/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-
HA45-0-0.1	11/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-
BH46-0-0.1	11/08/2022	Fill - Silty Sandy Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-
HA47-0-0.1	11/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-
HA47-0-0.2	11/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-
HA48-0-0.1	11/08/2022	Fill - Gravelly Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-
HA49-0-0.1	11/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-
HA50-0-0.1 (Primary)	11/08/2022		914805	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QA202200811-01 (Triplicate)	11/08/2022	Fill - Silty Sand	303323	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	-
QC20220811-01 (Duplicate)	11/08/2022		914805	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Statistical Summary																
Number of Results				7	1	1	6	7	7	7	7	7	7	7	7	6
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				0.29			0.25	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.25
Median Concentration				0.25	0.5	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Standard Deviation				0.094			0	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0

Field ID	Polychlorinated Biphenyls								MAH										
	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene	Total MAH	Bromobenzene	Isopropylbenzene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5	1	1	1	1	0.5	1	0.5	0.5	0.5
NEPC 2013 EIL, Site Specific*																			
NEPM 2013 Table 1A(1) HILs Res B Soil								1[#7]											
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay																			
0-1m																			
1-2m																			
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																			
NEPM 2013 Table 7 Res B Soil HSL for Asbestos in Soil																			
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																			
TP34-0-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP35-0.5-0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP35-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP36-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP37-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP38-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP39-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP39-0-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP40-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP40-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP41-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRAG_TP41-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP42-0-0.1	-	-	-	-	-	-	-	-	<0.5	<0.5	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5
HA43-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA44-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA45-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH46-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA47-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA47-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA48-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA49-0-0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-
HA50-0-0.1 (Primary)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5
QA202200811-01 (Triplicate)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
QC20220811-01 (Duplicate)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5
Statistical Summary																			
Number of Results	28	28	28	28	28	28	28	28	7	7	1	1	1	1	7	1	6	7	7
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.29	0.29					0.29		0.25	0.29	0.29
Median Concentration	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.25	0.25	0.5	0.5	0.5	0.5	0.25	0.5	0.25	0.25	0.25
Standard Deviation	0	0	0	0	0	0	0	0	0.094	0.094					0.094		0	0.094	0.094
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Field ID	Miscellaneous Hydrocarbons							Chlorinated Benzenes						
	1,2-dibromoethane	Bromomethane	Cyclohexane	Dibromomethane	Iodomethane	4-Methyl-2-pentanone	Methyl Ethyl Ketone	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	1	0.5	0.5	0.5	0.5	1	1	0.5	0.5	0.5	0.5	0.05
NEPC 2013 EIL, Site Specific*														
NEPM 2013 Table 1A(1) HILs Res B Soil														15
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay														
0-1m														
1-2m														
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil														
NEPM 2013 Table 7 Res B Soil HSL for Asbestos in Soil														
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil														
TP34-0-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP35-0.5-0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP35-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP36-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP37-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP38-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP39-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP39-0-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP40-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP40-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP41-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRAG_TP41-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP42-0-0.1	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-
HA43-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA44-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA45-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH46-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA47-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA47-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA48-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA49-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
HA50-0-0.1 (Primary)	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.05
QA202200811-01 (Triplicate)	<1	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<0.1
QC20220811-01 (Duplicate)	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.05
Statistical Summary														
Number of Results	7	7	1	7	6	6	6	1	1	7	7	7	7	28
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.05
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.1
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration	0.29	0.29		0.29	0.25	0.25	0.25			0.29	0.29	0.29	0.29	0.027
Median Concentration	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.5	0.5	0.25	0.25	0.25	0.25	0.025
Standard Deviation	0.094	0.094		0.094	0	0	0			0.094	0.094	0.094	0.094	0.0066
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table A: Soil Analytical Data
Project Number: 63097
Project Name: Wentworth Health Services Redevelopment

				Trihalomethanes				Organic Sulfur Compounds	Ionic Balance			Particle Size	Asbestos - Eurofins																			Chlorinated Hydrocarbons	Other		
				Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	Carbon disulfide	CEC	Conductivity (1:5 aqueous extract)	pH (Lab)	% Clay*	Approximate Sample Mass	Asbestos Sample Dimensions	Mass ACM	Mass Asbestos in ACM	Asbestos from ACM in Soil	Mass FA	Mass Asbestos in FA	Mass AF	Mass asbestos in AF	Asbestos from FA & AF in Soil	Mass Asbestos in FA & AF	ACM - Comment	FA- Comment	AF - Comment	Organic Fibres - Comment	Respirable Fibres - Comment	Synthetic Fibres - Comment	Asbestos Reported Result	Hexachlorobutadiene	Moisture Content (dried @ 103°C)	TOC	Iron (%)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	MEQ/100G	US/CM	pH Units	%	gm	Comment	g	gm	% (w/w)	gm	gm	gm	gm	% (w/w)	gm	Comment	Comment	Comment	Comment	Comment	Comment	Comment	mg/kg	%	%	%
EQL				0.5	0.5	0.5	0.5	0.5	0.05	10	0.1	1																			1	1	0.1	0.01
NEPC 2013 EIL, Site Specific*																																			
NEPM 2013 Table 1A(1) HILs Res B Soil																																			
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay																																			
0-1m																																			
1-2m																																			
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																																			
NEPM 2013 Table 7 Res B Soil HSL for Asbestos in Soil																	0.04[#19]					0.001[#20]												
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																																			
Field ID	**Sampled Date Time**	**Matrix Description**	**Lab Report Number**																																
FRAG-02	10/08/2022	Surficial Fragment	914805	-	-	-	-	-	-	-	-	-	6	1[#8]	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#11]	1[#11]	1[#11]	1[#3]	-	-	-	-
FRAG-04	11/08/2022	Surficial Fragment	914805	-	-	-	-	-	-	-	-	-	6	1[#9]	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#11]	1[#11]	1[#11]	1[#3]	-	-	-	-
SS01-0-0.1	9/08/2022	Fill - Silty Sand	914805	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9	-	-
TP01-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.7	-	-
TP01-0-0.3	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	665	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-		-	-
TP01-0.5-0.6	9/08/2022	Natural - Clay	914805	-	-	-	-	-	32	640	9	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	0.5	2.6
TP02-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-
TP02-0-0.4	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	554	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP03-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-
FRAG_TP03-0-0.4	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	6	1[#9]	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#11]	1[#11]	1[#11]	1[#3]	-	-	-	-
TP03-0-1.0	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	695	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP04-0-0.1	9/08/2022	Fill - Silt	914805	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.4	-	-
TP04-0-0.4	9/08/2022	Fill - Silt	914805	-	-	-	-	-	-	-	-	-	670	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP05-0-0.1	9/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	615	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	13	-	-
TP06-0-0.1 (Primary)	9/08/2022		914805	-	-	-	-	-	-	-	-	-	657	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	15	-	-
QA202200809-01 (Triplicate)	9/08/2022	Fill - Silty Sand	303323	-	-	-	-	-	-	-	-	-	697	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	15	-	-
QC20220809-01 (Duplicate)	9/08/2022		914805	-	-	-	-	-	-	-	-	-	661	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	16	-	-
TP07-0.5-0.6	9/08/2022	Natural - Sandy Clay	914805	-	-	-	-	-	29	1300	8.2	6.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.6	0.2	2.3
TP07-0-0.1	9/08/2022	Fill - Clayey Sand	914805	-	-	-	-	-	-	-	-	-	711	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	10	-	-
TP08-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	558	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	12	-	-
TP09-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-
TP09-0-0.2	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	574	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP10-0-0.1	9/08/2022	Fill - Clayey Sand	914805	-	-	-	-	-	-	-	-	-	757	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	7.3	-	-
TP11-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-
TP11-0-0.2	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	631	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP12-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	661	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	11	-	-
TP13-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	599	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	16	-	-
TP14-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-
TP14-0-0.3	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	437	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP15-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-
TP15-0-0.2	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	580	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP16-0.3-0.4	9/08/2022	Fill - Clayey Sand	914805	-	-	-	-	-	-	-	-	-	704	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP16-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.6	-	-
TP17-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-
TP17-0-0.3	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	635	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP18-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.3	-	-
TP18-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	622	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP19-0.3-0.4	10/08/2022	Natural - Clayey Sand	914805	-	-	-	-	-	28	420	8.1	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	0.3	3
TP19-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	642	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP20-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	560	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	15	-	-
TP21-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	500	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP22-0-0.1	10/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	678	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP23-0-0.1	10/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	707	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	9.7	-	-
TP24-0-0.1 (Primary)	10/08/2022		914805	-	-	-	-	-	-	-	-	-	704	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	9.2	-	-
QA202200810-01 (Triplicate)	10/08/2022	Fill - Silty Clay	303323	-	-	-	-	-	-	-	-	-	840	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	12	-	-
QC202200810-01 (Duplicate)	10/08/2022		914805	-	-	-	-	-	-	-	-	-	813	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	8.8	-	-
TP25-0.2-0.25	10/08/2022	Fill - Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.2	-	-
TP25-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-
TP25-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	810	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP26-0.5-0.6	10/08/2022	Natural - Sandy Clay	914805	-	-	-	-	-	28	32	8.1	9.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	0.3	2.8
TP26-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	552	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	12	-	-
TP27-0-0.1	10/08/2022	Fill - Clayey Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.8	-	-
TP27-0-0.2	10/08/2022	Fill - Clayey Sand	914805	-	-	-	-	-	-	-	-	-	695	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP28-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.9	-	-
TP28-0-0.4	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	614	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP29-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.5	-	-
TP29-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	616	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP30-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.9	-	-
TP30-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	653	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP31-0-0.1	10/08/2022	Fill - Silty Clay	914805	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	719	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	11	-	-
TP32-0.2-0.5	10/08/2022	Fill - Clay	914805	-	-	-	-	-	-	-	-	-	719	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP32-0.5-0.7	10/08/2022	Natural - Clay	914805	-	-	-	-	-	-	-	-	-	586	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP32-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.5	-	-
TP32-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	691	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP32-0.5-0.7	10/08/2022	Natural - Clay	914805	-	-	-	-	-	-	-	-	-	547	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
FRAG_TP32-0.5-0.7	10/08/2022	Fill - Clay	914805	-	-	-	-	-	-	-	-	-	103	1[#6]	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#11]	1[#11]	1[#11]	1[#2]	-	-	-	-
TP33-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-
FRAG_TP33-0-0.4	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	32	1[#10]	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#11]	1[#11]	1[#11]	1[#2]	-	-	-	-
TP33-0-0.4	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	609	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP34-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-	-

Table A: Soil Analytical Data
Project Number: 63097
Project Name: Wentworth Health Services Redevelopment

JBS&G

				Trihalomethanes				Organic Sulfur Compounds	Ionic Balance			Particle Size	Asbestos - Eurofins																			Chlorinated Hydrocarbons	Other		
				Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	Carbon disulfide	CEC	Conductivity (1:5 aqueous extract)	pH (Lab)	% Clay*	Approximate Sample Mass	Asbestos Sample Dimensions	Mass ACM	Mass Asbestos in ACM	Asbestos from ACM in Soil	Mass FA	Mass Asbestos in FA	Mass AF	Mass asbestos in AF	Asbestos from FA & AF in Soil	Mass Asbestos in FA & AF	ACM - Comment	FA- Comment	AF - Comment	Organic Fibres - Comment	Respirable Fibres - Comment	Synthetic Fibres - Comment	Asbestos Reported Result	Hexachlorobutadiene	Moisture Content (dried @ 103°C)	TOC	Iron (%)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	MEQ/100G	US/CM	pH Units	%	g	Comment	g	g	% (w/w)	g	g	g	g	% (w/w)	g	Comment	Comment	Comment	Comment	Comment	Comment	Comment	mg/kg	%	%	%
EQL				0.5	0.5	0.5	0.5	0.5	0.05	10	0.1	1																			1	1	0.1	0.01
NEPC 2013 EIL, Site Specific*																																			
NEPM 2013 Table 1A(1) HILs Res B Soil																																			
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay																																			
0-1m																																			
1-2m																																			
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																																			
NEPM 2013 Table 7 Res B Soil HSL for Asbestos in Soil																	0.04[#19]					0.001[#20]												
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																																			
Field ID	**Sampled Date Time**	**Matrix Description**	**Lab Report Number**																																
TP34-0-0.4	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	542	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP35-0.5-0.6	10/08/2022	Natural - Sandy Clay	914805	-	-	-	-	-	17	1800	6.6	9.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	0.5	3
TP35-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-
TP36-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	547	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP37-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	489	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	17	-	-
TP38-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	493	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP39-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-
TP39-0-0.3	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	562	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP40-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-
TP40-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	588	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP41-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	651	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	12	-	-
FRAG_TP41-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	6	1[#7]	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#11]	1[#11]	1[#11]	1[#3]	-	-	-	-
TP42-0-0.1	10/08/2022	Fill - Silty Clay	914805	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	575	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	6.7	-	-
HA43-0-0.1	11/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	669	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	15	-	-
HA44-0-0.1	11/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	819	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	5.8	-	-
HA45-0-0.1	11/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	755	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	10	-	-
BH46-0-0.1	11/08/2022	Fill - Silty Sandy Clay	914805	-	-	-	-	-	-	-	-	-	621	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	6.6	-	-
HA47-0-0.1	11/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-
HA47-0-0.2	11/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	583	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
HA48-0-0.1	11/08/2022	Fill - Gravelly Silty Sand	914805	-	-	-	-	-	-	-	-	-	671	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	7.5	-	-
HA49-0-0.1	11/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	637	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	21	-	-
HA50-0-0.1 (Primary)	11/08/2022		914805	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	589	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	11	-	-
QA202200811-01 (Triplicate)	11/08/2022	Fill - Silty Sand	303323	<1	<1	<1	<1	-	-	-	-	-	610	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	<1	11	-	-
QC202200811-01 (Duplicate)	11/08/2022		914805	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	605	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	8.5	-	-
Statistical Summary																																			
Number of Results				7	7	7	7	6	5	5	5	5	61	6	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	1	58	5	5
Number of Detects				0	0	0	0	0	5	5	5	5	61	6	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	0	58	5	5
Minimum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	17	32	6.6	6.6	6	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	<1	5.8	0.2	2.3
Minimum Detect				ND	ND	ND	ND	ND	17	32	6.6	6.6	6	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	1	1	1	1	1	1	ND	5.8	0.2	2.3
Maximum Concentration				<1	<1	<1	<1	<0.5	32	1800	9	14	819	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	<1	21	0.5	3
Maximum Detect				ND	ND	ND	ND	ND	32	1800	9	14	819	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	1	1	1	1	1	1	ND	21	0.5	3
Average Concentration				0.29	0.29	0.29	0.29	0.25	27	838	8	9.9	573	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1		11	0.36	2.7
Median Concentration				0.25	0.25	0.25	0.25	0.25	28	640	8.1	9.6	616	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0.5	11	0.3	2.8
Standard Deviation				0.094	0.094	0.094	0.094	0	5.7	708	0.87	2.6	198	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		3.7	0.13	0.3
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table B: Groundwater Analytical Data
Project Number: 63097
Project Name: Wentworth Health Services Redevelopment

	Metals & Metalloids								TPHs (NEPC 1999)					TRHs (NEPC 2013)							BTEXN						PAH																		
	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum of Total)	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Napthalene)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	ΣPAHs (Sum of total)
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.001	0.0002	0.001	0.001	0.001	0.0001	0.001	0.005	0.02	0.05	0.1	0.1	0.1	0.02	0.05	0.1	0.1	0.1	0.02	0.05	0.001	0.001	0.001	0.001	0.002	0.003	0.001	0.001	0.001	0.001	0.001	0.005	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
ANZG (2018) Freshwater 95% toxicant DGVs	0.013[#1]	0.0002[#2]	0.001[#3]	0.0014[#2]	0.0034[#4]	0.0006[#5]	0.011[#6]	0.008[#7]													0.95[#4]	0.18[#8]	0.08[#8]	0.35[#6]	0.075[#9]				0.0004[#10]		0.0002[#10]									0.0014[#10]			0.016[#6]	0.002[#10]		
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Clay																																														
2-4m																			NL[#24]	NL[#25]	NL5	NL	NL			NL																		NL			
4-8m																			NL[#24]	NL[#25]	NL5	NL	NL			NL																		NL			
PFAS NEMP 2020 Table 1 Health Drinking Water																																														
PFAS NEMP 2020 Table 1 Health Recreational Water																																														
PFAS NEMP 2020 Table 5 Freshwater 95%																																														
PFAS NEMP 2020 Table 5 Freshwater 99%																																														

Field ID	Sampled Date	Lab Report Number																																												
HP01	11/08/2022	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HP02	11/08/2022	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW03 (Primary)	11/08/2022	914805	0.024	<0.0002	0.001	0.015	<0.001	<0.0001	0.002	0.008	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
QA-MW (Triplicate)	11/08/2022	303323	0.025	<0.0001	0.002	0.006	<0.001	<0.00005	0.001	0.008	<0.01	<0.05	<0.1	<0.1	<0.05	<0.01	0.071	<0.1	<0.1	0.07	<0.01	0.071	<0.001	<0.001	<0.001	<0.001	<0.002	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	-	<0.002	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0[#1]
QC-MW (Duplicate)	11/08/2022	914805	0.023	<0.0002	<0.001	0.004	<0.001	<0.0001	0.001	0.018	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW04	11/08/2022	914805	0.023	<0.0002	0.002	0.007	<0.001	<0.0001	0.007	0.011	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	0.05	<0.1	<0.1	<0.1	<0.02	0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
BLANK	12/08/2022	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RIN20220811-S	11/08/2022	914805	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	<0.001	<0.005	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
RIN20220811-W	11/08/2022	914805	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	<0.001	<0.005	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Statistical Summary																																														
Number of Results	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	6	6	6	6	6	1	5	1	6	5	6	6	6	6	6	6	6	6	6	6
Number of Detects	4	0	3	4	0	0	0	4	0	0	0	0	0	0	2	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Minimum Concentration	0.023	<0.0002	<0.001	0.004	<0.001	<0.00005	<0.001	0.008	<0.01	<0.05	<0.1	<0.1	<0.05	<0.01	<0.05	<0.1	<0.1	0.07	<0.01	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0
Minimum Detect	0.023	ND	0.001	0.004	ND	ND	0.001	0.008	ND	ND	ND	ND	ND	ND	0.05	ND	ND	0.07	ND	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	0.025	<0.0002	0.002	0.015	<0.001	<0.0001	0.007	0.018	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	0.071	<0.1	<0.1	<0.1	<0.02	0.071	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Maximum Detect	0.025	ND	0.002	0.015	ND	ND	0.007	0.018	ND	ND	ND	ND	ND	ND	0.071	ND	ND	0.07	ND	0.071	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration	0.024		0.0014	0.008			0.0028	0.011	0.0092	0.025	0.05	0.05	0.046	0.0092	0.037	0.05	0.05	0.053	0.0092	0.037	0.0005	0.0005	0.0005	0.0005	0.001	0.0015	0.0005	0.0005	0.0005	0.0005	0.0005		0.0005		0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.00042
Median Concentration	0.0235	0.0001	0.0015	0.0065	0.0005	0.00005	0.0015	0.0095	0.01	0.025	0.05	0.05	0.05	0.01	0.025	0.05	0.05	0.05	0.01	0.025	0.0005	0.0005	0.0005	0.0005	0.001	0.0015	0.0005	0.0005	0.0005	0.0005	0.0005	0.0025	0.0005	0.001	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Standard Deviation	0.00096		0.00075	0.0048			0.0029	0.0047	0.002	0	0	0	0.01	0.002	0.019	0	0	0.0082	0.002	0.019	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0.0002
Number of Guideline Exceedances	4	2	4	4	0	2	0	4	0	0	0	0	0	0	0	0	0	0	6	6	0	0	0	0	0	0	0	0	6	0	6	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0
Number of Guideline Exceedances(Detects Only)	4	0	3	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	6	6	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

Env Stds Comments

#1:Moderate Reliability. Adopted from AsV. Recommended for application for slightly to moderately disturbed ecosystems.
#2:Very High Reliability. Recommended for application for slightly to moderately disturbed ecosystems.
#3:Very High Reliability. Adopted from CrVI. ?Recommended for application for slightly to moderately disturbed ecosystems. Check guidelines for more details.
#4:Moderate Reliability. Recommended for application for slightly to moderately disturbed ecosystems.
#5:Moderate Reliability.
#6:Low Reliability. Recommended for application for slightly to moderately disturbed ecosystems.
#7:Very High Reliability. Recommended for application for slightly to moderately disturbed ecosystems. Check guidelines for more details.
#8:Unknown Reliability. Recommended for application for slightly to moderately disturbed ecosystems.
#9:Adopted from m-Xylene
#10:Unknown Reliability.
#11:Low Reliability.
#12:Low Reliability. DGV may not protect key test species from chronic toxicity (this refers to experimental chronic values or geometric mean for species). Check the resources listed in Read the detail, below, for spread of data and its significance.
#13:Moderate Reliability. Adopted from AsV.
#14:Very High Reliability.
#15:Very High Reliability. Adopted from CrVI.
#16:Moderate Reliability. To account for the bioaccumulating nature of this toxicant, it is recommended that the 99% species protection level DGV is used for slightly to moderately disturbed systems. Also see General comments.
#17:Unknown Reliability. To account for the bioaccumulating nature of this toxicant, it is recommended that the 99% species protection level DGV is used for slightly to moderately disturbed systems. Also see General comments.
#18:Unknown Reliability. To account for the bioaccumulating nature of this toxicant, it is recommended that the 99% species protection level DGV is used for slightly to moderately disturbed systems. Also see General comments.
#19:Moderate Reliability. To account for the bioaccumulating nature of this toxicant, it is recommended that the 99% species protection level DGV is used for slightly to moderately disturbed systems. Also see General comments
#20:Low Reliability. To account for the bioaccumulating nature of this toxicant, it is recommended that the 99% species protection level DGV is used for slightly to moderately disturbed systems. Check guidelines for more details.
#21:Moderate Reliability. To account for the bioaccumulating nature of this toxicant, it is recommended that the 99% species protection level DGV is used for slightly to moderately disturbed systems. Also see general comments.
#22:Low Reliability. Check guidelines for more details.
#23:Unknown Reliability. Recommended for application for slightly to moderately disturbed ecosystems (to protect key species from chronic toxicity - see Technical Brief for details).
#24:To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10 fraction.
#25:To obtain F2 subtract napthalene from the >C10 - C16 fraction.
#26:Values calculated using hardness of 30 mg/L CaCO3. Refer ANZECC & ARMCANZ (2000) for site specific hardness guidance
#27:Trigger value adopted from Chromium VI
#28:Trigger value adopted from Arsenic V
#29:Chemical for which possible bioaccumulation and secondary poisoning effects should be considered, refer to ANZECC & ARMCANZ (2000) for further guidance.
#30:Figure may not protect key species from chronic toxicity, refer to ANZECC & ARMCANZ (2000) for further guidance. Values calculated using hardness of 30 mg/L CaCO3. Refer ANZECC & ARMCANZ (2000) for site specific hardness guidance.
#31:Sum of individual values for o-xylene (350ug/L) and p-xylene (200ug/L)
#32:Source: Australian Government Department of Health 2019
#33:Source: NHMRC 2019

Table B: Groundwater Analytical Data
Project Number: 63097
Project Name: Wentworth Health Services Redevelopment

			Organochlorine Pesticides																							Chlorinated Alkanes																			Chlorinated Alkenes										
			4-4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	chlordane	DDT	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	endosulfan sulphate	endrin	endrin aldehyde	endrin ketone	Heptachlor	Heptachlor Epoxide	Methoxychlor	toxaphene	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane	Trichlorofluoromethane	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	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			0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.005	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.005
ANZG (2018) Freshwater 95% toxicant DGVs							0.0002[#4]				0.00008[#5]	0.00001[#5]						0.00002[#5]			0.00009[#5]			0.0002[#5]		0.27[#8]	0.4[#8]	6.5[#4]				1.9[#8]	0.9[#8]	1.1[#8]			0.24[#8]				4[#8]		0.7[#8]							0.07[#8]			0.33[#8]	0.1[#8]
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Clay																																																								
2-4m																																																								
4-8m																																																								
PFAS NEMP 2020 Table 1 Health Drinking Water																																																								
PFAS NEMP 2020 Table 1 Health Recreational Water																																																								
PFAS NEMP 2020 Table 5 Freshwater 95%																																																								
PFAS NEMP 2020 Table 5 Freshwater 99%																																																								
Field ID	**Sampled Date**	**Lab Report Number**																																																						
HP01	11/08/2022	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HP02	11/08/2022	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW03 (Primary)	11/08/2022	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
QA-MW (Triplicate)	11/08/2022	303323	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.01	<0.01	-	<0.01	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01
QC-MW (Duplicate)	11/08/2022	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
MW04	11/08/2022	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
BLANK	12/08/2022	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RIN20220811-S	11/08/2022	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
RIN20220811-W	11/08/2022	914805	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Statistical Summary																																																								
Number of Results			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6	6	6	6	6	6	1	6	6	6	1	6	6	6	6	6	5	6	6	1	1	5	6	6	6	6	6	6	6	6
Number of Detects			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Minimum Detect			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.01	<0.01	<0.005	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01
Maximum Detect			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration																									0.0005	0.0005	0.0005	0.0005	0.0005	0.0005		0.0005	0.0005	0.0005		0.0005	0.0005	0.0029	0.0029	0.0029	0.0025	0.0029	0.0005			0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0029
Median Concentration			0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0025	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0025	0.0025	0.0025	0.0025	0.0025	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0025
Standard Deviation																									0	0	0	0	0	0		0	0	0		0	0	0.001	0.001	0.001	0	0.001	0			0	0	0	0	0	0	0	0	0	0.001
Number of Guideline Exceedances			0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	6
Number of Guideline Exceedances(Detects Only)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table B: Groundwater Analytical Data
Project Number: 63097
Project Name: Wentworth Health Services Redevelopment

			Solvents	Polychlorinated Biphenyls								PFAS																																						
			Acetone	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	PCBs (Sum of total)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	Perfluoropropanesulfonic acid (PFPrS)	Perfluorobutanesulfonic acid (PFBS)	Perfluoropentanesulfonic acid (PFPeS)	Perfluorohexanesulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctanesulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecanesulfonic acid (PFDS)	1H,1H,2H,2H-perfluorohexanesulfonic acid (4-2 FTSA)	1H,1H,2H,2H-perfluorooctanesulfonic acid (6-2 FTSA)	1H,1H,2H,2H-perfluorodecanesulfonic acid (8-2 FTSA)	1H,1H,2H,2H-perfluorododecanesulfonic acid (10-2 FTSA)	Sum of PFHxS and PFOS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of WA DWER PFAS (m-10)*	Sum of PFAS
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	UG/L	µg/L
EQL			0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.05	0.1
ANZG (2018) Freshwater 95% toxicant DGVs							0.0006[E11]		0.00003[J6]																																					
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Clay																																														
2-4m																																														
4-8m																																														
PFAS NEMP 2020 Table 1 Health Drinking Water																0.56[R12]																	0.07[R12]		0.07[R12]							0.07[R12]				
PFAS NEMP 2020 Table 1 Health Recreational Water																10[R13]																	2[R13]		2[R13]							2[R13]				
PFAS NEMP 2020 Table 5 Freshwater 95%																220																			0.13											
PFAS NEMP 2020 Table 5 Freshwater 99%																19																			0.00023											
Field ID	**Sampled Date**	**Lab Report Number**																																												
HP01	11/08/2022	914805	-	-	-	-	-	-	-	-	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.1
HP02	11/08/2022	914805	-	-	-	-	-	-	-	-	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.1
MW03 (Primary)	11/08/2022	914805	<0.005	-	-	-	-	-	-	-	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.1
QA-MW (Triplicate)	11/08/2022	303323	-	-	-	-	-	-	-	-	-	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.05	<0.1	<0.5	<0.1	<0.05	<0.1	<0.05	<0.5	<0.02	<0.02	<0.02	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.02	<0.01	<0.01	<0.02	<0.02	<0.01	-	<0.01	-	<0.01
QC-MW (Duplicate)	11/08/2022	914805	<0.005	-	-	-	-	-	-	-	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.1
MW04	11/08/2022	914805	<0.005	-	-	-	-	-	-	-	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.1
BLANK	12/08/2022	914805	-	-	-	-	-	-	-	-	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.1
RIN20220811-S	11/08/2022	914805	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RIN20220811-W	11/08/2022	914805	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.1
Statistical Summary																																														
Number of Results			5	1	1	1	1	1	1	1	1	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	8	8	8	8	8	7	8	8	8	8	8	8	7	8	7	8
Number of Detects			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01
Minimum Detect			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.05	<0.1	<0.5	<0.1	<0.05	<0.1	<0.05	<0.5	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.05	<0.02	<0.02	<0.01	<0.01	<0.01	<0.05	<0.1
Maximum Detect			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration			0.0025									0.023	0.0056	0.005	0.005	0.005	0.005	0.0056	0.0056	0.0075	0.011	0.036	0.028	0.025	0.028	0.025	0.053	0.023	0.023	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.023	0.0056	0.0056	0.005	0.005	0.005	0.025	0.044
Median Concentration			0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.025	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.025	0.005	0.005	0.005	0.005	0.005	0.025	0.05
Standard Deviation			0									0.0053	0.0018	0	0	0	0	0.0018	0.0018	0.0071	0.016	0.087	0.0088	0	0.0088	0	0.08	0.0053	0.0053	0	0	0	0	0	0	0	0.0018	0	0.0071	0.0018	0.0018	0	0	0	0	0.016
Number of Guideline Exceedances			0	0	0	0	1	0	1	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	8	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table B: Groundwater Analytical Data
Project Number: 63097
Project Name: Wentworth Health Services Redevelopment

			MAH						Miscellaneous Hydrocarbons						Chlorinated Benzenes							Trihalomethanes				Organic Sulfur Compounds	Major Cations		Ionic Balance			Chlorinated Hydrocarbons	Other
			1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Styrene	Total MAH	Bromobenzene	Isopropylbenzene	1,2-dibromoethane	Bromomethane	Dibromomethane	Iodomethane	4-Methyl-2-pentanone	Methyl Ethyl Ketone	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	Carbon disulfide	Calcium	Magnesium	Electrical Conductivity (Lab)	Hardness as CaCO3	pH (Lab)	Hexachlorobutadiene	TDS
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µS/cm	mg/L	pH Units	mg/L	mg/L
EQL			0.001	0.001	0.001	0.003	0.001	0.001	0.001	0.005	0.001	0.001	0.005	0.005	0.001	0.001	0.001	0.001	0.001	0.001	0.0002	0.001	0.005	0.001	0.001	0.001	0.5	0.5	10	1	0.1	0.001	10
ANZG (2018) Freshwater 95% toxicant DGVs								0.03[48]							0.01[#11]	0.17[#12]	0.16[46]	0.26[46]	0.06[44]	0.055[48]	0.0001[#10]		0.77[#10]										
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Clay																																	
2-4m																																	
4-8m																																	
PFAS NEMP 2020 Table 1 Health Drinking Water																																	
PFAS NEMP 2020 Table 1 Health Recreational Water																																	
PFAS NEMP 2020 Table 5 Freshwater 95%																																	
PFAS NEMP 2020 Table 5 Freshwater 99%																																	
Field ID	**Sampled Date**	**Lab Report Number**																															
HP01	11/08/2022	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HP02	11/08/2022	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW03 (Primary)	11/08/2022	914805	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	-	-	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.005	<0.001	<0.001	<0.001	14	19	2400	110	8.4	-	3400
QA-MW (Triplicate)	11/08/2022	303323	-	-	-	-	<0.001	-	<0.001	<0.01	<0.001	-	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	-	12	14	4800	86	8.2	<0.001	3200
QC-MW (Duplicate)	11/08/2022	914805	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	-	-	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.005	<0.001	<0.001	<0.001	15	20	2600	120	8	-	3400
MW04	11/08/2022	914805	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	-	-	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.005	<0.001	<0.001	<0.001	14	15	3300	95	8.3	-	4600
BLANK	12/08/2022	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RIN20220811-S	11/08/2022	914805	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	-	-	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.005	<0.001	<0.001	<0.001	-	-	-	-	-	-	-
RIN20220811-W	11/08/2022	914805	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	-	-	<0.001	<0.001	<0.001	<0.001	<0.0002	<0.001	<0.005	<0.001	<0.001	<0.001	-	-	-	-	-	-	-
Statistical Summary																																	
Number of Results			5	5	5	5	6	5	6	6	6	5	5	5	1	1	6	6	6	6	1	6	6	6	6	5	3	3	3	3	4	1	4
Number of Detects			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3	3	4	0	4
Minimum Concentration			<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.001	<0.001	14	15	2400	95	8	<0.001	3200
Minimum Detect			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14	15	2400	95	8	ND	3200
Maximum Concentration			<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0002	<0.001	<0.005	<0.001	<0.001	<0.001	15	20	3300	120	8.4	<0.001	4600
Maximum Detect			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15	20	3300	120	8.4	ND	4600
Average Concentration			0.0005	0.0005	0.0005	0.0015	0.0005	0.0005	0.0005	0.0029	0.0005	0.0005	0.0025	0.0025			0.0005	0.0005	0.0005	0.0005		0.0005	0.0022	0.0005	0.0005	0.0005	14	18	2767	108	8.2		3650
Median Concentration			0.0005	0.0005	0.0005	0.0015	0.0005	0.0005	0.0005	0.0025	0.0005	0.0005	0.0025	0.0025	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0001	0.0005	0.0025	0.0005	0.0005	0.0005	14	19	2600	110	8.25	0.0005	3400
Standard Deviation			0	0	0	0	0	0	0	0.001	0	0	0	0			0	0	0	0		0	0.00082	0	0	0	0.58	2.6	473	13	0.17		640
Number of Guideline Exceedances			0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0
Number of Guideline Exceedances(Detects Only)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table C: Preliminary and Chemical Waste Classification Analytical Data
Project Number: 63097
Project Name: Wentworth Health Services Redevelopment

JBS&G

				Metals & Metalloids									TPHs (NEPC 1999)					TRHs (NEPC 2013)							BTEXN						PAH																			
				Arsenic	Cadmium	Chromium (III+VI)	Copper	Iron	Lead	Mercury	Nickel	Zinc	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum of Total)	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ calc (Zero)	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)
				mg/kg	mg/kg	mg/kg	mg/kg	MG/KG	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				2	0.4	5	5	20	5	0.1	5	5	20	20	50	50	50	20	50	100	100	100	20	50	0.1	0.1	0.1	0.1	0.2	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)				100	20	100[#1]			100	4	40		650[#1]				10000[#1]								10	288	600			1000					0.8[#1]																	
NSW 2014 Restricted Solid Waste CT2 (No Leaching)				500	100	1900[#1]			1500	50	1050		650[#1]				10000[#1]								18	518	1080			1800					10[#1]																	
Field ID	**Sampled Date Time**	**Matrix Description**	**Lab Report Number**																																																
FRAG-02	10/08/2022	Surficial Fragment	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRAG-04	11/08/2022	Surficial Fragment	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS01-0-0.1	9/08/2022	Fill - Silty Sand	914805	<2	<0.4	9	12	-	18	<0.1	5.6	110	<20	<20	<50	81	81	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP01-0-0.1	9/08/2022	Fill - Silty Clay	914805	3.5	<0.4	22	19	-	15	<0.1	15	52	<20	<20	98	160	258	<20	<50	200	120	320	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP01-0-0.3	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP01-0.5-0.6	9/08/2022	Natural - Clay	914805	-	-	-	-	26,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02-0-0.4	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03-0-0.1	9/08/2022	Fill - Silty Clay	914805	3.5	<0.4	49	24	-	18	<0.1	27	73	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FRAG_TP03-0-0.4	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03-0-1.0	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04-0-0.1	9/08/2022	Fill - Silt	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04-0-0.4	9/08/2022	Fill - Silt	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05-0-0.1	9/08/2022	Fill - Silty Sand	914805	7.4	<0.4	31	16	-	12	<0.1	21	47	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP06-0-0.1 (Primary)	9/08/2022		914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA202200809-01 (Triplicate)	9/08/2022	Fill - Silty Sand	303323	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220809-01 (Duplicate)	9/08/2022		914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP07-0.5-0.6	9/08/2022	Natural - Sandy Clay	914805	-	-	-	-	23,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP07-0-0.1	9/08/2022	Fill - Clayey Sand	914805	3.3	<0.4	13	11	-	7	<0.1	11	31	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP08-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP09-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP09-0-0.2	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP10-0-0.1	9/08/2022	Fill - Clayey Sand	914805	4.9	<0.4	13	11	-	5.2	<0.1	11	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<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
TP11-0-0.1	9/08/2022	Fill - Silty Clay	914805	4.7	<0.4	29	14	-	9.7	<0.1	16	49	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP11-0-0.2	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP12-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP13-0-0.1	9/08/2022	Fill - Silty Clay	914805	3.3	<0.4	29	14	-	11	<0.1	16	47	<20	83	<50	<50	83	<20	56	<100	<100	<100	<20	56	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP14-0-0.1	9/08/2022	Fill - Silty Clay	914805	3	<0.4	24	13	-	15	<0.1	15	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<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
TP14-0-0.3	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP15-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP15-0-0.2	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP16-0.3-0.4	9/08/2022	Fill - Clayey Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP16-0-0.1	9/08/2022	Fill - Silty Clay	914805	3	<0.4	17	10	-	12	0.7	11	40	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP17-0-0.1	10/08/2022	Fill - Silty Clay	914805	3.1	<0.4	25	12	-	13	<0.1	15	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<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
TP17-0-0.3	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP18-0-0.1	10/08/2022	Fill - Silty Clay	914805	3.5	<0.4	18	11	-	24	<0.1	13	38	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP18-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP19-0.3-0.4	10/08/2022	Natural - Clayey Sand	914805	-	-	-	-	30,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP19-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP20-0-0.1	10/08/2022	Fill - Silty Clay	914805	3.6	<0.4	26	16	-	37	0.1	17	130	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP21-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP22-0-0.1	10/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP23-0-0.1	10/08/2022	Fill - Silty Sand	914805	2.7	<0.4	22	27	-	61	<0.1	8.3	1400	<20	<20	75	110	185	<20	<50	140	<100	140	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP24-0-0.1 (Primary)	10/08/2022		914805	<2	<0.4	9.9	15	-	7.6	<0.1	6.3	44	<20	22	390	300	712	<20	65	750	250	1065	<20	65	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QA202200810-01 (Triplicate)	10/08/2022	Fill - Silty Clay	303323	<4	<0.4	6	27	-	11	0.1	6	49	<25	<50	450	350	810	<25	130	640	250	1000	<25	130	<0.2	<0.5	<1	<1	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.5	<0.5	<0.5	-	<0.2	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05
QC20220810-01 (Duplicate)	10/08/2022		914805	<2	<0.4	15	81	-	15	0.3	7.2	66	<20	30	690	570	1290	<20	120	1300	450	1870	<20	120	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP25-0.2-0.25	10/08/2022	Fill - Sand	914805	3.2	<0.4	6.7	7.6	-	61	<0.1	<5	58	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP25-0-0.1	10/08/2022	Fill - Silty Clay	914805	4.2	<0.4	17	15	-	210	<0.1	11	240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<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
TP25-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP26-0.5-0.6	10/08/2022	Natural - Sandy Clay	914805	-	-	-	-	28,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP26-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP27-0-0.1	10/08/2022	Fill - Clayey Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP27-0-0.2	10/08/2022	Fill - Clayey Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP28-0-0.1	10/08/2022	Fill - Silty Clay	914805	2.6	<0.4	18	8.5	-	15	<0.1	11	37	<20	57	60	80	197	<20	<50	110	<100	110	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP28-0-0.4	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP29-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP29-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP30-0-0.1	10/08/2022	Fill - Silty Clay	914805	3.2	<0.4	20	13	-	24	<0.1	13	61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<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
TP30-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP31-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP32-0.2-0.5	10/08/2022	Fill - Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table C: Preliminary and Chemical Waste Classification Analytical Data
Project Number: 63097
Project Name: Wentworth Health Services Redevelopment

JBS&G

				Metals & Metalloids									TPHs (NEPC 1999)					TRHs (NEPC 2013)							BTEXN						PAH																					
				Arsenic	Cadmium	Chromium (III+VI)	Copper	Iron	Lead	Mercury	Nickel	Zinc	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum of Total)	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ calc (Zero)	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)
				mg/kg	mg/kg	mg/kg	mg/kg	MG/KG	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				2	0.4	5	5	20	5	0.1	5	5	20	20	50	50	50	20	50	100	100	100	20	50	0.1	0.1	0.1	0.1	0.2	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)				100	20	100[a]			100	4	40		650[a]				10000[a]								10	288	600			1000					0.8[a]																	
NSW 2014 Restricted Solid Waste CT2 (No Leaching)				500	100	1900[a]			1500	50	1050		650[a]				10000[a]								18	518	1080			1800					10[a]																	
Field ID	**Sampled Date Time**	**Matrix Description**	**Lab Report Number**																																																		
TP32-0.5-0.7	10/08/2022	Natural - Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP32-0-0.1	10/08/2022	Fill - Silty Clay	914805	3.7	<0.4	23	12	-	14	<0.1	14	44	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP32-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP33-0.5-0.7	10/08/2022	Natural - Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRAG_TP32-0.5-0.7	10/08/2022	Fill - Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP33-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRAG_TP33-0-0.4	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP33-0-0.4	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP34-0-0.1	10/08/2022	Fill - Silty Clay	914805	5	<0.4	29	26	-	26	<0.1	19	130	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP34-0-0.4	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP35-0.5-0.6	10/08/2022	Natural - Sandy Clay	914805	-	-	-	-	30,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP35-0-0.1	10/08/2022	Fill - Silty Clay	914805	3.4	<0.4	35	18	-	36	<0.1	22	94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<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
TP36-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP37-0-0.1	10/08/2022	Fill - Silty Clay	914805	3.3	<0.4	36	19	-	20	<0.1	21	69	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP38-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP39-0-0.1	10/08/2022	Fill - Silty Clay	914805	3.6	<0.4	27	15	-	14	<0.1	18	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<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
TP39-0-0.3	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP40-0-0.1	10/08/2022	Fill - Silty Clay	914805	2.1	<0.4	15	8.4	-	9.6	<0.1	9.9	35	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP40-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP41-0-0.1	10/08/2022	Fill - Silty Clay	914805	2.4	<0.4	20	12	-	33	<0.1	15	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<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
FRAG_TP41-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP42-0-0.1	10/08/2022	Fill - Silty Clay	914805	2.9	<0.4	7.5	11	-	<5	<0.1	8.4	9.9	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	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
HA43-0-0.1	11/08/2022	Fill - Silty Clay	914805	8	<0.4	21	14	-	27	<0.1	14	86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<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
HA44-0-0.1	11/08/2022	Fill - Silty Clay	914805	<2	<0.4	<5	<5	-	40	<0.1	<5	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<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
HA45-0-0.1	11/08/2022	Fill - Silty Clay	914805	3.5	<0.4	19	22	-	24	<0.1	13	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6
BH46-0-0.1	11/08/2022	Fill - Silty Sandy Clay	914805	2.5	<0.4	15	16	-	56	<0.1	12	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<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
HA47-0-0.1	11/08/2022	Fill - Silty Sand	914805	<2	<0.4	<5	34	-	<5	<0.1	<5	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<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
HA47-0-0.2	11/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA48-0-0.1	11/08/2022	Fill - Gravelly Silty Sand	914805	2.2	<0.4	11	17	-	27	<0.1	7.7	130	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HA49-0-0.1	11/08/2022	Fill - Silty Sand	914805	3.5	<0.4	14	21	-	140	<0.1	9.3	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<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
HA50-0-0.1 (Primary)	11/08/2022	Fill - Silty Sand	914805	3.4	<0.4	20	26	-	24	0.2	12	130	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QA202200811-01 (Triplicate)	11/08/2022		303323	<4	<0.4	11	27	-	23	0.3	9	100	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.5	<1	<1	<2	-	<0.1	<0.1	<0.1	<0.1	<0.05	<0.5	<0.5	<0.5	-	<0.2	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05
QC202200811-01 (Duplicate)	11/08/2022		914805	2.9	<0.4	19	23	-	22	0.1	11	110	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Statistical Summary																																																					
Number of Results				39	39	39	39	5	39	39	39	39	22	22	22	22	22	22	22	22	22	22	22	22	27	27	27	27	27	26	39	39	39	39	39	39	39	39	37	2	39	37	39	39	39	39	39	39	39	39	39	39
Number of Detects				32	0	37	38	5	37	7	36	39	0	4	6	7	8	0	4	6	4	6	0	4	0	0	0	0	0	0	0	0	0	0	0	37	37	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Minimum Concentration				<2	<0.4	<5	<5	23000	<5	<0.1	<5	9.9	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.05	<0.5	<0.5	<0.5	<0.5	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05
Minimum Detect				2.1	ND	6	7.6	23000	5.2	0.1	5.6	9.9	ND	22	60	80	81	ND	56	110	120	110	ND	56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	0.6	ND	ND	ND	ND	ND	ND	0.6	ND	ND	ND	ND	ND	ND	0.6
Maximum Concentration				8	<0.4	49	81	30000	210	0.7	27	1400	<25	83	690	570	1290	<25	130	1300	450	1870	<25	130	<0.2	<0.5	<1	<1	<2	<1	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6
Maximum Detect				8	ND	49	81	30000	210	0.7	27	1400	ND	83	690	570	1290	ND	130	1300	450	1870	ND	130	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	0.6	ND	ND	ND	ND	ND	ND	0.6	ND	ND	ND	ND	ND	ND	0.6
Average Concentration				3.2	0.2	19	18	27400	29	0.087	12	109	10	18	98	92	180	10	37	179	90	241	10	37	0.054	0.065	0.083	0.083	0.17	0.16	0.24	0.24	0.24	0.24	0.24	1.2	0.58	0.25	0.25		0.24	0.25	0.24	0.24	0.25	0.24	0.24	0.24	0.24	0.24	0.24	0.25
Median Concentration				3.2	0.2	19	15	28000	18	0.05	12	61	10	10	25	25	25	10	25	50	50	50	10	25	0.05	0.05	0.05	0.05	0.1	0.15	0.25	0.25	0.25	0.25	0.25	1.2	0.6	0.25	0.25	0.1	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Standard Deviation				1.5	0	9.7	12	2966	38	0.12	5.5	217	0.53	18	176	140	329	0.53	30	314	100	464	0.53	30	0.013	0.053	0.12	0.12	0.24	0.069	0.045	0.045	0.045	0.045	0.05	0.21	0.078	0	0		0.045	0	0.045	0.045	0.073	0.045	0.045	0.045	0.045	0.045	0.045	0.077
Number of Guideline Exceedances				0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table C: Preliminary and Chemical Waste Classification Analytical Data
Project Number: 63097
Project Name: Wentworth Health Services Redevelopment

JBS&G

				Organochlorine Pesticides																							Chlorinated Alkanes																	
				4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	Chlordane (cis)	Chlordane (trans)	DDT	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane	Trichlorofluoromethane
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)																												200	600	26	24				10					10				172	
NSW 2014 Restricted Solid Waste CT2 (No Leaching)																												360	1080	46.8	43.2				18				18					310	
Field ID	**Sampled Date Time**	**Matrix Description**	**Lab Report Number**																																										
FRAG-02	10/08/2022	Surficial Fragment	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRAG-04	11/08/2022	Surficial Fragment	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS01-0-0.1	9/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP01-0-0.1	9/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP01-0-0.3	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP01-0.5-0.6	9/08/2022	Natural - Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02-0-0.1	9/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02-0-0.4	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03-0-0.1	9/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRAG_TP03-0-0.4	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03-0-1.0	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04-0-0.1	9/08/2022	Fill - Silt	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP04-0-0.4	9/08/2022	Fill - Silt	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05-0-0.1	9/08/2022	Fill - Silty Sand	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP06-0-0.1 (Primary)	9/08/2022		914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA202200809-01 (Triplicate)	9/08/2022	Fill - Silty Sand	303323	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC202208809-01 (Duplicate)	9/08/2022		914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP07-0.5-0.6	9/08/2022	Natural - Sandy Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP07-0-0.1	9/08/2022	Fill - Clayey Sand	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP08-0-0.1	9/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP09-0-0.1	9/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP09-0-0.2	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP10-0-0.1	9/08/2022	Fill - Clayey Sand	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP11-0-0.1	9/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP11-0-0.2	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP12-0-0.1	9/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP13-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP14-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP14-0-0.3	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP15-0-0.1	9/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP15-0-0.2	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP16-0.3-0.4	9/08/2022	Fill - Clayey Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP16-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP17-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP17-0-0.3	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP18-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP18-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP19-0.3-0.4	10/08/2022	Natural - Clayey Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP19-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP20-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP21-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP22-0-0.1	10/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP23-0-0.1	10/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP24-0-0.1 (Primary)	10/08/2022		914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA202200810-01 (Triplicate)	10/08/2022	Fill - Silty Clay	303323	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC202208810-01 (Duplicate)	10/08/2022		914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP25-0.2-0.25	10/08/2022	Fill - Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP25-0-0.1	10/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP25-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP26-0.5-0.6	10/08/2022	Natural - Sandy Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP26-0-0.1	10/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP27-0-0.1	10/08/2022	Fill - Clayey Sand	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP27-0-0.2	10/08/2022	Fill - Clayey Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP28-0-0.1	10/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP28-0-0.4	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP29-0-0.1	10/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP29-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP30-0-0.1	10/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP30-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP31-0-0.1	10/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP32-0.2-0.5	10/08/2022	Fill - Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table C: Preliminary and Chemical Waste Classification Analytical Data
Project Number: 63097
Project Name: Wentworth Health Services Redevelopment

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				Organochlorine Pesticides																									Chlorinated Alkanes																
				4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	Chlordane (cis)	Chlordane (trans)	DDT	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane	Trichlorofluoromethane
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)																												200	600	26	24				10					10				172	
NSW 2014 Restricted Solid Waste CT2 (No Leaching)																												360	1080	46.8	43.2				18				18					310	
Field ID	**Sampled Date Time**	**Matrix Description**	**Lab Report Number**																																											
TP32-0.5-0.7	10/08/2022	Natural - Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP32-0-0.1	10/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP32-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP33-0.5-0.7	10/08/2022	Natural - Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRAG_TP32-0.5-0.7	10/08/2022	Fill - Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP33-0-0.1	10/08/2022	Fill - Silty Clay	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRAG_TP33-0-0.4	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP33-0-0.4	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP34-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP34-0-0.4	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP35-0.5-0.6	10/08/2022	Natural - Sandy Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP35-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP36-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP37-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP38-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP39-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP39-0-0.3	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP40-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP40-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP41-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRAG_TP41-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP42-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HA43-0-0.1	11/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA44-0-0.1	11/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA45-0-0.1	11/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH46-0-0.1	11/08/2022	Fill - Silty Sandy Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA47-0-0.1	11/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA47-0-0.2	11/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA48-0-0.1	11/08/2022	Fill - Gravelly Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA49-0-0.1	11/08/2022	Fill - Silty Sand	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA50-0-0.1 (Primary)	11/08/2022	Fill - Silty Sand	914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QA202200811-01 (Triplicate)	11/08/2022		303323	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
QC202208811-01 (Duplicate)	11/08/2022		914805	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Statistical Summary																																														
Number of Results				28	28	28	28	28	28	28	26	26	2	2	28	28	28	28	28	28	28	28	26	28	28	28	26	7	7	7	7	7	7	1	7	7	7	1	7	7	7	7	7	6	7
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.025	0.05			0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.025	0.027	0.027	0.027	0.25	0.29	0.29	0.29	0.29	0.29	0.29		0.29	0.29	0.29		0.29	0.29	0.29	0.29	0.29	0.25	0.29
Median Concentration				0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.05	0.05	0.05	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Standard Deviation				0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0	0			0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0	0.0066	0.0066	0.0066	0	0.094	0.094	0.094	0.094	0.094	0.094		0.094	0.094	0.094		0.094	0.094	0.094	0.094	0.094	0	0.094
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table C: Preliminary and Chemical Waste Classification Analytical Data
Project Number: 63097
Project Name: Wentworth Health Services Redevelopment

JBS&G

				Chlorinated Alkenes												Solvents	Polychlorinated Biphenyls							
				1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride	Acetone	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NSW 2014 General Solid Waste CT1 (No Leaching)				14							14			10	4									<50[#1]
NSW 2014 Restricted Solid Waste CT2 (No Leaching)				25							25.2			18	16									<50[#1]
Field ID	**Sampled Date Time**	**Matrix Description**	**Lab Report Number**																					
FRAG-02	10/08/2022	Surficial Fragment	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRAG-04	11/08/2022	Surficial Fragment	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS01-0-0.1	9/08/2022	Fill - Silty Sand	914805	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
TP01-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP01-0-0.3	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP01-0.5-0.6	9/08/2022	Natural - Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP02-0-0.4	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
FRAG_TP03-0-0.4	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03-0-1.0	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04-0-0.1	9/08/2022	Fill - Silt	914805	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP04-0-0.4	9/08/2022	Fill - Silt	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05-0-0.1	9/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP06-0-0.1 (Primary)	9/08/2022		914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
QA202200809-01 (Triplicate)	9/08/2022	Fill - Silty Sand	303323	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
QC202200809-01 (Duplicate)	9/08/2022		914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP07-0.5-0.6	9/08/2022	Natural - Sandy Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP07-0-0.1	9/08/2022	Fill - Clayey Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP08-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP09-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP09-0-0.2	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP10-0-0.1	9/08/2022	Fill - Clayey Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP11-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP11-0-0.2	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP12-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP13-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP14-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP14-0-0.3	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP15-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP15-0-0.2	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP16-0.3-0.4	9/08/2022	Fill - Clayey Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP16-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP17-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP17-0-0.3	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP18-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP18-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP19-0.3-0.4	10/08/2022	Natural - Clayey Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP19-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP20-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP21-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP22-0-0.1	10/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP23-0-0.1	10/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP24-0-0.1 (Primary)	10/08/2022		914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA202200810-01 (Triplicate)	10/08/2022	Fill - Silty Clay	303323	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC202200810-01 (Duplicate)	10/08/2022		914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP25-0.2-0.25	10/08/2022	Fill - Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP25-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP25-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP26-0.5-0.6	10/08/2022	Natural - Sandy Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP26-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP27-0-0.1	10/08/2022	Fill - Clayey Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP27-0-0.2	10/08/2022	Fill - Clayey Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP28-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP28-0-0.4	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP29-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP29-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP30-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP30-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP31-0-0.1	10/08/2022	Fill - Silty Clay	914805	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP32-0.2-0.5	10/08/2022	Fill - Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	MAH												Miscellaneous Hydrocarbons							Chlorinated Benzenes							Trihalomethanes			
	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene	Total MAH	Bromobenzene	Isopropylbenzene	1,2-dibromoethane	Bromomethane	Cyclohexane	Dibromomethane	Iodomethane	4-Methyl-2-pentanone	Methyl Ethyl Ketone	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	1	1	1	1	0.5	1	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	1	1	0.5	0.5	0.5	0.5	0.05	0.5	0.5	0.5	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)							60											4000			86		150	2000			120		
NSW 2014 Restricted Solid Waste CT2 (No Leaching)							108											7200			155		270	3600			216		
FRAG-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRAG-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS01-0-0.1	<0.5	<0.5	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
TP01-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
TP01-0-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP01-0.5-0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
TP02-0-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
FRAG_TP03-0-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03-0-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04-0-0.1	<0.5	<0.5	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5
TP04-0-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
TP06-0-0.1 (Primary)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
QA202200809-01 (Triplicate)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-
QC202200809-01 (Duplicate)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
TP07-0.5-0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP07-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
TP08-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
TP09-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
TP09-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP10-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
TP11-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
TP11-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP12-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
TP13-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP14-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP14-0-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP15-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
TP15-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP16-0.3-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP16-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP17-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP17-0-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP18-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP18-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP19-0.3-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP19-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP20-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP21-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP22-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP23-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP24-0-0.1 (Primary)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA202200810-01 (Triplicate)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC202200810-01 (Duplicate)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP25-0.2-0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP25-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
TP25-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP26-0.5-0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP26-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
TP27-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
TP27-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP28-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
TP28-0-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP29-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
TP29-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP30-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
TP30-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP31-0-0.1	<0.5	<0.5	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5
TP32-0.2-0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table C: Preliminary and Chemical Waste Classification Analytical Data
Project Number: 63097
Project Name: Wentworth Health Services Redevelopment

JBS&G

				Chlorinated Alkenes												Solvents	Polychlorinated Biphenyls							
				1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride	Acetone	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NSW 2014 General Solid Waste CT1 (No Leaching)				14							14			10	4									<50[#1]
NSW 2014 Restricted Solid Waste CT2 (No Leaching)				25							25.2			18	16									<50[#1]
Field ID	**Sampled Date Time**	**Matrix Description**	**Lab Report Number**																					
TP32-0.5-0.7	10/08/2022	Natural - Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP32-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TP32-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP33-0.5-0.7	10/08/2022	Natural - Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRAG_TP32-0.5-0.7	10/08/2022	Fill - Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP33-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
FRAG_TP33-0-0.4	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP33-0-0.4	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP34-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP34-0-0.4	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP35-0.5-0.6	10/08/2022	Natural - Sandy Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP35-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP36-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP37-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP38-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP39-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP39-0-0.3	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP40-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP40-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP41-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRAG_TP41-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP42-0-0.1	10/08/2022	Fill - Silty Clay	914805	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
HA43-0-0.1	11/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA44-0-0.1	11/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA45-0-0.1	11/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH46-0-0.1	11/08/2022	Fill - Silty Sandy Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA47-0-0.1	11/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA47-0-0.2	11/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA48-0-0.1	11/08/2022	Fill - Gravelly Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA49-0-0.1	11/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
HA50-0-0.1 (Primary)	11/08/2022		914805	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
QA202200811-01 (Triplicate)	11/08/2022	Fill - Silty Sand	303323	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
QC20220811-01 (Duplicate)	11/08/2022		914805	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Statistical Summary																								
Number of Results				7	1	1	6	7	7	7	7	7	7	7	7	6	28	28	28	28	28	28	28	28
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				0.29			0.25	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.25	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Median Concentration				0.25	0.5	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Standard Deviation				0.094			0	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	MAH												Miscellaneous Hydrocarbons							Chlorinated Benzenes							Trihalomethanes			
	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene	Total MAH	Bromobenzene	Isopropylbenzene	1,2-dibromoethane	Bromomethane	Cyclohexane	Dibromomethane	Iodomethane	4-Methyl-2-pentanone	Methyl Ethyl Ketone	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	1	1	1	1	0.5	1	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	1	1	0.5	0.5	0.5	0.5	0.05	0.5	0.5	0.5	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)							60											4000			86		150	2000			120		
NSW 2014 Restricted Solid Waste CT2 (No Leaching)							108											7200			155		270	3600			216		
TP32-0.5-0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP32-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
TP32-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP33-0.5-0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRAG_TP32-0.5-0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP33-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
FRAG_TP33-0-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP33-0-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP34-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP34-0-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP35-0.5-0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP35-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP36-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP37-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP38-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP39-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP39-0-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP40-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP40-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP41-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRAG_TP41-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP42-0-0.1	<0.5	<0.5	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
HA43-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA44-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA45-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH46-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA47-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA47-0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA48-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA49-0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
HA50-0-0.1 (Primary)	<0.5	<0.5	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5
QA202200811-01 (Triplicate)	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1	<1	<1	<0.1	<1	<1	<1	<1
QC20220811-01 (Duplicate)	<0.5	<0.5	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5
Number of Results	7	7	1	1	1	1	7	1	6	7	7	7	7	1	7	6	6	6	1	1	7	7	7	7	28	7	7	7	7
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.5	<0.5	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.1	<1	<1	<1	<1
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration	0.29	0.29					0.29		0.25	0.29	0.29	0.29	0.29		0.29	0.25	0.25	0.25			0.29	0.29	0.29	0.29	0.027	0.29	0.29	0.29	0.29
Median Concentration	0.25	0.25	0.5	0.5	0.5	0.5	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.5	0.5	0.25	0.25	0.25	0.25	0.025	0.25	0.25	0.25	0.25
Standard Deviation	0.094	0.094					0.094		0	0.094	0.094	0.094	0.094		0.094	0	0	0			0.094	0.094	0.094	0.094	0.0066	0.094	0.094	0.094	0.094
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table C: Preliminary and Chemical Waste Classification Analytical Data
Project Number: 63097
Project Name: Wentworth Health Services Redevelopment

				Microbiological	Organic Sulfur Compounds	Ionic Balance			EPA VIC - IWRG621				Particle Size	Asbestos - Eurofins																	Chlorinated Hydrocarbons	Other		
				E. Coli	Carbon disulfide	CEC	Conductivity (1:5 aqueous extract)	pH (Lab)	Chlorinated Hydrocarbons EPAVic	Other Chlorinated Hydrocarbons EPAVic	Organochlorine Pesticides EPAVic	Other Organochlorine Pesticides EPAVic	% Clay*	Approximate Sample Mass	Asbestos Sample Dimensions	Mass ACM	Mass Asbestos in ACM	Asbestos from ACM in Soil	Mass FA	Mass Asbestos in FA	Mass AF	Mass asbestos in AF	Asbestos from FA & AF in Soil	Mass Asbestos in FA & AF	ACM - Comment	FA- Comment	AF - Comment	Organic Fibres - Comment	Respirable Fibres - Comment	Synthetic Fibres - Comment	Asbestos Reported Result	Hexachlorobutadiene	Moisture Content (dried @ 103°C)	TOC	Iron (%)
				mpn/100mg	mg/kg	MEQ/100G	US/CM	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	%	g	Comment	g	g	% (w/w)	g	g	g	g	% (w/w)	g	Comment	Comment	Comment	Comment	Comment	Comment	Comment	mg/kg	%	%	%
EQL				100	0.5	0.05	10	0.1	0.5	0.5	0.1	0.1	1																			1	1	0.1	0.01
NSW 2014 General Solid Waste CT1 (No Leaching)																																			
NSW 2014 Restricted Solid Waste CT2 (No Leaching)																																			
Field ID	**Sampled Date Time**	**Matrix Description**	**Lab Report Number**																																
FRAG-02	10/08/2022	Surficial Fragment	914805	-	-	-	-	-	-	-	-	-	-	6	1[#8]	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#11]	1[#11]	1[#11]	1[#1]	-	-	-	-
FRAG-04	11/08/2022	Surficial Fragment	914805	-	-	-	-	-	-	-	-	-	-	6	1[#9]	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#11]	1[#11]	1[#11]	1[#1]	-	-	-	-
SS01-0-0.1	9/08/2022	Fill - Silty Sand	914805	-	<0.5	-	-	-	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9	-	-
TP01-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.7	-	-
TP01-0-0.3	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	665	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP01-0.5-0.6	9/08/2022	Natural - Clay	914805	-	-	32	640	9	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	0.5	2.6
TP02-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-
TP02-0-0.4	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	554	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP03-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-
FRAG_TP03-0-0.4	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	6	1[#9]	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#11]	1[#11]	1[#11]	1[#1]	-	-	-	-
TP03-0-1.0	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	695	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP04-0-0.1	9/08/2022	Fill - Silt	914805	-	<0.5	-	-	-	<0.5	<0.5	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.4	-	-
TP04-0-0.4	9/08/2022	Fill - Silt	914805	-	-	-	-	-	-	-	-	-	-	670	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP05-0-0.1	9/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	<0.1	<0.1	-	615	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	13	-	-
TP06-0-0.1 (Primary)	9/08/2022		914805	-	-	-	-	-	-	-	<0.1	<0.1	-	657	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	15	-	-
QA202200809-01 (Triplicate)	9/08/2022	Fill - Silty Sand	303323	-	-	-	-	-	-	-	-	-	-	697	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	15	-	-
QC202200809-01 (Duplicate)	9/08/2022		914805	-	-	-	-	-	-	-	<0.1	<0.1	-	661	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	16	-	-
TP07-0.5-0.6	9/08/2022	Natural - Sandy Clay	914805	-	-	29	1300	8.2	-	-	-	-	6.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.6	0.2	2.3
TP07-0-0.1	9/08/2022	Fill - Clayey Sand	914805	-	-	-	-	-	-	-	<0.1	<0.1	-	711	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	10	-	-
TP08-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	<0.1	<0.1	-	558	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	12	-	-
TP09-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-
TP09-0-0.2	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	574	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP10-0-0.1	9/08/2022	Fill - Clayey Sand	914805	-	-	-	-	-	-	-	<0.1	<0.1	-	757	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	7.3	-	-
TP11-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-
TP11-0-0.2	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	631	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP12-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	<0.1	<0.1	-	661	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	11	-	-
TP13-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	599	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	16	-	-
TP14-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-
TP14-0-0.3	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	437	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP15-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-
TP15-0-0.2	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	580	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP16-0.3-0.4	9/08/2022	Fill - Clayey Sand	914805	-	-	-	-	-	-	-	-	-	-	704	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP16-0-0.1	9/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.6	-	-
TP17-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-
TP17-0-0.3	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	635	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP18-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.3	-	-
TP18-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	622	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP19-0.3-0.4	10/08/2022	Natural - Clayey Sand	914805	-	-	28	420	8.1	-	-	-	-	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	0.3	3
TP19-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	642	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP20-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	560	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	15	-	-
TP21-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	500	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP22-0-0.1	10/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	678	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP23-0-0.1	10/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	707	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	9.7	-	-
TP24-0-0.1 (Primary)	10/08/2022		914805	-	-	-	-	-	-	-	-	-	-	704	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	9.2	-	-
QA202200810-01 (Triplicate)	10/08/2022	Fill - Silty Clay	303323	<180	-	-	-	-	-	-	-	-	-	840	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	12	-	-
QC202200810-01 (Duplicate)	10/08/2022		914805	-	-	-	-	-	-	-	-	-	-	813	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	8.8	-	-
TP25-0.2-0.25	10/08/2022	Fill - Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.2	-	-
TP25-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-
TP25-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	810	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP26-0.5-0.6	10/08/2022	Natural - Sandy Clay	914805	-	-	28	32	8.1	-	-	-	-	9.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	0.3	2.8
TP26-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	<0.1	<0.1	-	552	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	12	-	-
TP27-0-0.1	10/08/2022	Fill - Clayey Sand	914805	-	-	-	-	-	-	-	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.8	-	-
TP27-0-0.2	10/08/2022	Fill - Clayey Sand	914805	-	-	-	-	-	-	-	-	-	-	695	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP28-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.9	-	-
TP28-0-0.4	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	614	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP29-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.5	-	-
TP29-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	616	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP30-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.9	-	-
TP30-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	653	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-
TP31-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	<0.5	-	-	-	<0.5	<0.5	<0.1	<0.1	-	719	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	11	-	-
TP32-0.2-0.5	10/08/2022	Fill - Clay	914805	-	-	-	-	-	-	-	-	-	-	719	-	0	0	0	0	0	0	0	0	0	1[#11]	1[#11]	1[#11]	1[#5]	1[#4]	1[#11]	1[#1]	-	-	-	-

Table C: Preliminary and Chemical Waste Classification Analytical Data
Project Number: 63097
Project Name: Wentworth Health Services Redevelopment

				Microbiological	Organic Sulfur Compounds	Ionic Balance			EPA VIC - IWRG621				Particle Size	Asbestos - Eurofins																	Chlorinated Hydrocarbons	Other		
				E. Coli	Carbon disulfide	CEC	Conductivity (1:5 aqueous extract)	pH (Lab)	Chlorinated Hydrocarbons EPAVic	Other Chlorinated Hydrocarbons EPAVic	Organochlorine Pesticides EPAVic	Other Organochlorine Pesticides EPAVic	% Clay*	Approximate Sample Mass	Asbestos Sample Dimensions	Mass ACM	Mass Asbestos in ACM	Asbestos from ACM in Soil	Mass FA	Mass Asbestos in FA	Mass AF	Mass asbestos in AF	Asbestos from FA & AF in Soil	Mass Asbestos in FA & AF	Mass Asbestos in FA & AF	ACM - Comment	FA- Comment	AF - Comment	Organic Fibres - Comment	Respirable Fibres - Comment	Synthetic Fibres - Comment	Asbestos Reported Result	Hexachlorobutadiene	Moisture Content (dried @ 103°C)	TOC	Iron (%)
				mpn/100mg	mg/kg	MEQ/100G	US/CM	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	%	g	Comment	g	g	% (w/w)	g	g	g	g	% (w/w)	g	Comment	Comment	Comment	Comment	Comment	Comment	Comment	mg/kg	%	%	%
EQL				100	0.5	0.05	10	0.1	0.5	0.5	0.1	0.1	1																			1	1	0.1	0.01
NSW 2014 General Solid Waste CT1 (No Leaching)																																			
NSW 2014 Restricted Solid Waste CT2 (No Leaching)																																			
Field ID	**Sampled Date Time**	**Matrix Description**	**Lab Report Number**																																
TP32-0.5-0.7	10/08/2022	Natural - Clay	914805	-	-	-	-	-	-	-	-	-	-	586	-	0	0	0	0	0	0	0	0	0	[1#11]	[1#11]	[1#11]	[1#5]	[1#4]	[1#11]	[1#1]	-	-	-	-
TP32-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.5	-	-
TP32-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	691	-	0	0	0	0	0	0	0	0	0	[1#11]	[1#11]	[1#11]	[1#5]	[1#4]	[1#11]	[1#1]	-	-	-	-
TP33-0.5-0.7	10/08/2022	Natural - Clay	914805	-	-	-	-	-	-	-	-	-	-	547	-	0	0	0	0	0	0	0	0	0	[1#11]	[1#11]	[1#11]	[1#5]	[1#4]	[1#11]	[1#1]	-	-	-	-
FRAG_TP32-0.5-0.7	10/08/2022	Fill - Clay	914805	-	-	-	-	-	-	-	-	-	-	103	[1#6]	0	0	0	0	0	0	0	0	0	[1#11]	[1#11]	[1#11]	[1#11]	[1#11]	[1#11]	[1#2]	-	-	-	-
TP33-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-
FRAG_TP33-0-0.4	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	32	[1#10]	0	0	0	0	0	0	0	0	0	[1#11]	[1#11]	[1#11]	[1#11]	[1#11]	[1#11]	[1#2]	-	-	-	-
TP33-0-0.4	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	609	-	0	0	0	0	0	0	0	0	0	[1#11]	[1#11]	[1#11]	[1#5]	[1#4]	[1#11]	[1#1]	-	-	-	-
TP34-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-	-
TP34-0-0.4	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	542	-	0	0	0	0	0	0	0	0	0	[1#11]	[1#11]	[1#11]	[1#5]	[1#4]	[1#11]	[1#1]	-	-	-	-
TP35-0.5-0.6	10/08/2022	Natural - Sandy Clay	914805	-	-	17	1800	6.6	-	-	-	-	9.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	0.5	3
TP35-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-
TP36-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	547	-	0	0	0	0	0	0	0	0	0	[1#11]	[1#11]	[1#11]	[1#5]	[1#4]	[1#11]	[1#1]	-	-	-	-
TP37-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	489	-	0	0	0	0	0	0	0	0	0	[1#11]	[1#11]	[1#11]	[1#5]	[1#4]	[1#11]	[1#1]	-	17	-	-
TP38-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	493	-	0	0	0	0	0	0	0	0	0	[1#11]	[1#11]	[1#11]	[1#5]	[1#4]	[1#11]	[1#1]	-	-	-	-
TP39-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-
TP39-0-0.3	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	562	-	0	0	0	0	0	0	0	0	0	[1#11]	[1#11]	[1#11]	[1#5]	[1#4]	[1#11]	[1#1]	-	-	-	-
TP40-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-
TP40-0-0.2	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	588	-	0	0	0	0	0	0	0	0	0	[1#11]	[1#11]	[1#11]	[1#5]	[1#4]	[1#11]	[1#1]	-	-	-	-
TP41-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	651	-	0	0	0	0	0	0	0	0	0	[1#11]	[1#11]	[1#11]	[1#5]	[1#4]	[1#11]	[1#1]	-	12	-	-
FRAG_TP41-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	6	[1#7]	0	0	0	0	0	0	0	0	0	[1#11]	[1#11]	[1#11]	[1#11]	[1#11]	[1#11]	[1#3]	-	-	-	-
TP42-0-0.1	10/08/2022	Fill - Silty Clay	914805	-	<0.5	-	-	-	<0.5	<0.5	-	-	-	575	-	0	0	0	0	0	0	0	0	0	[1#11]	[1#11]	[1#11]	[1#5]	[1#4]	[1#11]	[1#1]	-	6.7	-	-
HA43-0-0.1	11/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	669	-	0	0	0	0	0	0	0	0	0	[1#11]	[1#11]	[1#11]	[1#5]	[1#4]	[1#11]	[1#1]	-	15	-	-
HA44-0-0.1	11/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	819	-	0	0	0	0	0	0	0	0	0	[1#11]	[1#11]	[1#11]	[1#5]	[1#4]	[1#11]	[1#1]	-	5.8	-	-
HA45-0-0.1	11/08/2022	Fill - Silty Clay	914805	-	-	-	-	-	-	-	-	-	-	755	-	0	0	0	0	0	0	0	0	0	[1#11]	[1#11]	[1#11]	[1#5]	[1#4]	[1#11]	[1#1]	-	10	-	-
BH46-0-0.1	11/08/2022	Fill - Silty Sandy Clay	914805	-	-	-	-	-	-	-	-	-	-	621	-	0	0	0	0	0	0	0	0	0	[1#11]	[1#11]	[1#11]	[1#5]	[1#4]	[1#11]	[1#1]	-	6.6	-	-
HA47-0-0.1	11/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-
HA47-0-0.2	11/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	583	-	0	0	0	0	0	0	0	0	0	[1#11]	[1#11]	[1#11]	[1#5]	[1#4]	[1#11]	[1#1]	-	-	-	-
HA48-0-0.1	11/08/2022	Fill - Gravelly Silty Sand	914805	-	-	-	-	-	-	-	-	-	-	671	-	0	0	0	0	0	0	0	0	0	[1#11]	[1#11]	[1#11]	[1#5]	[1#4]	[1#11]	[1#1]	-	7.5	-	-
HA49-0-0.1	11/08/2022	Fill - Silty Sand	914805	-	-	-	-	-	-	-	<0.1	<0.1	-	637	-	0	0	0	0	0	0	0	0	0	[1#11]	[1#11]	[1#11]	[1#5]	[1#4]	[1#11]	[1#1]	-	21	-	-
HA50-0-0.1 (Primary)	11/08/2022	Fill - Silty Sand	914805	-	<0.5	-	-	-	<0.5	<0.5	<0.1	<0.1	-	589	-	0	0	0	0	0	0	0	0	0	[1#11]	[1#11]	[1#11]	[1#5]	[1#4]	[1#11]	[1#1]	-	11	-	-
QA202200811-01 (Triplicate)	11/08/2022		303323	-	-	-	-	-	-	-	-	-	-	610	-	0	0	0	0	0	0	0	0	0	[1#11]	[1#11]	[1#11]	[1#5]	[1#4]	[1#11]	[1#1]	<1	11	-	-
QC202208811-01 (Duplicate)	11/08/2022		914805	-	<0.5	-	-	-	<0.5	<0.5	<0.1	<0.1	-	605	-	0	0	0	0	0	0	0	0	0	[1#11]	[1#11]	[1#11]	[1#5]	[1#4]	[1#11]	[1#1]	-	8.5	-	-
Statistical Summary																																			
Number of Results				1	6	5	5	5	6	6	26	26	5	61	6	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	1	58	5	5
Number of Detects				0	0	5	5	5	0	0	0	0	5	61	6	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	0	58	5	5
Minimum Concentration				<180	<0.5	17	32	6.6	<0.5	<0.5	<0.1	<0.1	6.6	6	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	<1	5.8	0.2	2.3
Minimum Detect				ND	ND	17	32	6.6	ND	ND	ND	ND	6.6	6	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	1	1	1	1	1	1	ND	5.8	0.2	2.3
Maximum Concentration				<180	<0.5	32	1800	9	<0.5	<0.5	<0.1	<0.1	14	819	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	<1	21	0.5	3
Maximum Detect				ND	ND	32	1800	9	ND	ND	ND	ND	14	819	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	1	1	1	1	1	1	ND	21	0.5	3
Average Concentration					0.25	27	838	8	0.25	0.25	0.05	0.05	9.9	573	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1		11	0.36	2.7
Median Concentration				90	0.25	28	640	8.1	0.25	0.25	0.05	0.05	9.6	616	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0.5	11	0.3	2.8
Standard Deviation					0	5.7	708	0.87	0	0	0	0	2.6	198	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		3.7	0.13	0.3
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table D: Leachate Analytical Data
Project Number: 63097
Project Name: Wentworth Health Services Redevelopment

			Metals & Metalloids	Ionic Balance		
			Lead	pH (after HCL)	pH (Final)	pH (Initial)
			mg/L	pH Units	pH Units	pH Units
EQL			0.01	0.1	0.1	0.1
NSW 2014 General Solid Waste TCLP1 (leached)			5			
NSW 2014 Restricted Solid Waste TCLP2 (leached)			20			
Field_ID	**Sampled_Date_Time**	**Lab_Report_Number**				
HA49-0-0.1	11/08/2022	917148	0.03	7.2	5.4	9.5
TP25-0-0.1	10/08/2022	917148	3.5	6.4	4.6	9
Statistical Summary						
Number of Results			2	2	2	2
Number of Detects			2	2	2	2
Minimum Concentration			0.03	6.4	4.6	9
Minimum Detect			0.03	6.4	4.6	9
Maximum Concentration			3.5	7.2	5.4	9.5
Maximum Detect			3.5	7.2	5.4	9.5
Average Concentration						
Median Concentration			1.765	6.8	5	9.25
Standard Deviation						
Number of Guideline Exceedances			0	0	0	0
Number of Guideline Exceedances(Detects Only)			0	0	0	0

Table E: Asbestos Quantification Data
Project Number: 63097
Project Name: Wentworth Health Services Redevelopment

Asbestos Quantification Results									
Sample Location ID	AQ Sample ID	Asbestos Identified in AQ	ACM ID	g	ACM g	%	w/w%	NEPC HSL-B (w/w%)	Result
TP01	TP01-0.0-0.3	No	-	16400	0	0	0.000	0.04	Below HSL
TP02	TP02-0.0-0.4	Yes	Frag_02	16400	6	0.9	0.005	0.04	Below HSL
TP03	TP03-0.0-1.0	Yes	FRAG_TP03-0-0.4	16400	6	0.9	0.005	0.04	Below HSL
TP04	TP04-0.0-0.4	No	-	16400	0	0	0.000	0.04	Below HSL
TP04	TP04-0.4-0.5	No	-	16400	0	0	0.000	0.04	Below HSL
TP05	TP05-0.0-0.1	No	-	16400	0	0	0.000	0.04	Below HSL
TP06	TP06-0.0-0.1	No	-	16400	0	0	0.000	0.04	Below HSL
TP07	TP07-0.0-0.1	No	-	16400	0	0	0.000	0.04	Below HSL
TP07	TP07-0.1-0.2	No	-	16400	0	0	0.000	0.04	Below HSL
TP08	TP08-0.0-0.1	No	-	16400	0	0	0.000	0.04	Below HSL
TP09	TP09-0.0-0.2	No	-	16400	0	0	0.000	0.04	Below HSL
TP10	TP10-0.0-0.1	No	-	16400	0	0	0.000	0.04	Below HSL
TP10	TP10-0.1-0.4	No	-	16400	0	0	0.000	0.04	Below HSL
TP11	TP11-0.0-0.2	No	-	16400	0	0	0.000	0.04	Below HSL
TP12	TP12-0.0-0.1	No	-	16400	0	0	0.000	0.04	Below HSL
TP13	TP13-0.0-0.1	No	-	16400	0	0	0.000	0.04	Below HSL
TP14	TP14-0.0-0.3	No	-	16400	0	0	0.000	0.04	Below HSL
TP15	TP15-0.0-0.2	No	-	16400	0	0	0.000	0.04	Below HSL
TP16	TP16-0.0-0.3	No	-	16400	0	0	0.000	0.04	Below HSL
TP16	TP16-0.3-0.4	No	-	16400	0	0	0.000	0.04	Below HSL
TP17	TP17-0.0-0.3	No	-	16400	0	0	0.000	0.04	Below HSL
TP18	TP18-0.0-0.2	No	-	16400	0	0	0.000	0.04	Below HSL
TP19	TP19-0.0-0.1	No	-	16400	0	0	0.000	0.04	Below HSL
TP20	TP20-0.0-0.1	No	-	16400	0	0	0.000	0.04	Below HSL
TP21	TP21-0.0-0.1	No	-	16400	0	0	0.000	0.04	Below HSL
TP22	TP22-0.0-0.1	No	-	16400	0	0	0.000	0.04	Below HSL
TP23	TP23-0.0-0.1	No	-	16400	0	0	0.000	0.04	Below HSL
TP24	TP24-0.0-0.1	No	-	16400	0	0	0.000	0.04	Below HSL
TP25	TP25-0.0-0.2	No	-	16400	0	0	0.000	0.04	Below HSL
TP26	TP26-0.0-0.1	No	-	16400	0	0	0.000	0.04	Below HSL
TP27	TP27-0.0-0.2	No	-	16400	0	0	0.000	0.04	Below HSL
TP27	TP27-0.2-1.0	No	-	16400	0	0	0.000	0.04	Below HSL
TP28	TP28-0.0-0.4	No	-	16400	0	0	0.000	0.04	Below HSL
TP29	TP29-0.0-0.2	No	-	16400	0	0	0.000	0.04	Below HSL
TP30	TP30-0.0-0.2	No	-	16400	0	0	0.000	0.04	Below HSL
TP30	TP30-0.2-0.4	No	-	16400	0	0	0.000	0.04	Below HSL
TP31	TP31-0.0-0.1	No	-	16400	0	0	0.000	0.04	Below HSL
TP32	TP32-0.0-0.2	No	-	16400	0	0	0.000	0.04	Below HSL
TP32	TP32-0.2-0.5	No	-	16400	0	0	0.000	0.04	Below HSL
TP32	TP32-0.5-0.7	Yes	FRAG-TP32-0.5-0.7	16400	103	15.45	0.094	0.04	Above HSL
TP33	TP33-0.0-0.4	No	-	16400	0	0	0.000	0.04	Below HSL
TP33	TP33-0.4-0.7	Yes	FRAG-TP33-0-0.1	16400	32	4.8	0.029	0.04	Below HSL
TP34	TP34-0.0-0.4	Yes	Frag_04	16400	6	0.9	0.005	0.04	Below HSL
TP35	TP35-0.0-0.1	No	-	16400	0	0	0.000	0.04	Below HSL
TP36	TP36-0.0-0.1	No	-	16400	0	0	0.000	0.04	Below HSL
TP37	TP37-0.0-0.1	No	-	16400	0	0	0.000	0.04	Below HSL
TP38	TP38-0.0-0.1	No	-	16400	0	0	0.000	0.04	Below HSL
TP39	TP39-0.0-0.3	No	-	16400	0	0	0.000	0.04	Below HSL
TP40	TP40-0.0-0.2	No	-	16400	0	0	0.000	0.04	Below HSL
TP41	TP41-0.0-0.1	Yes	FRAG_TP41-0-0.1	16400	6	0.9	0.005	0.04	Below HSL
TP42	TP42-0.0-0.1	No	-	16400	0	0	0.000	0.04	Below HSL
HA43	HA43-0.0-0.1	No	-	16400	0	0	0.000	0.04	Below HSL
HA43	HA43-0.2-0.3	No	-	16400	0	0	0.000	0.04	Below HSL
HA44	HA44-0.0-0.1	No	-	16400	0	0	0.000	0.04	Below HSL
HA44	HA44-0.2-0.3	No	-	16400	0	0	0.000	0.04	Below HSL
HA45	HA45-0.0-0.1	No	-	16400	0	0	0.000	0.04	Below HSL
HA45	HA45-0.2-0.3	No	-	16400	0	0	0.000	0.04	Below HSL
BH46	BH46-0.0-0.1	No	-	16400	0	0	0.000	0.04	Below HSL
HA47	HA47-0.0-0.2	No	-	16400	0	0	0.000	0.04	Below HSL
HA48	HA48-0.0-0.1	No	-	16400	0	0	0.000	0.04	Below HSL
HA48	HA48-0.2-0.3	No	-	16400	0	0	0.000	0.04	Below HSL
HA49	HA49-0.0-0.1	No	-	16400	0	0	0.000	0.04	Below HSL
HA49	HA49-0.1-0.2	No	-	16400	0	0	0.000	0.04	Below HSL
HA50	HA50-0.0-0.1	No	-	16400	0	0	0.000	0.04	Below HSL
HA50	HA50-0.2-0.3	No	-	16400	0	0	0.000	0.04	Below HSL

Conversion Key	
	1640*1000
1 tonne	1640000

ACM Detection	
	Within AQ

Appendix A Site Survey and Concept Sketches

WENTWORTH HEALTH SERVICE REDEVELOPMENT

24 HOSPITAL ROAD
WENTWORTH NSW 2648

Sheet Number	Sheet Name	Current Revision	Current Revision Date
REF-0000	COVER	2	03.04.2023
REF-0005	EXTERNAL FINISHES BOARD	2	03.04.2023
REF-0020	LOCATION PLAN	2	03.04.2023
REF-0202	SITE PLAN	5	03.04.2023
REF-0203	DEMOLITION PLAN - STAGE 1A	2	03.04.2023
REF-0204	DEMOLITION PLAN - STAGE 1B	2	03.04.2023
REF-0210	SITE SECTIONS	5	03.04.2023
REF-1000	GENERAL ARRANGEMENT PLAN - GROUND	5	03.04.2023
REF-1001	GENERAL ARRANGEMENT PLAN - ROOF	2	03.04.2023
REF-3000	EXTERNAL ELEVATIONS	5	03.04.2023
REF-4000	SECTIONS	2	03.04.2023

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1	20.12.22	Ref Issue	AK	PR
2	03.04.2023	Ref Issue	AK	PR

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Drawing Title
COVER

Date 12/04/2023 5:48:00 PM
Scale @ A1

Drawing Reference
21325-NBRS-AR-REF-0000

Revision
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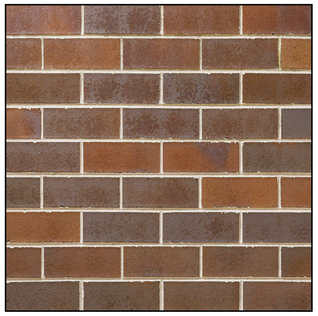
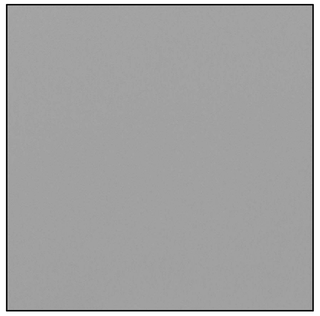
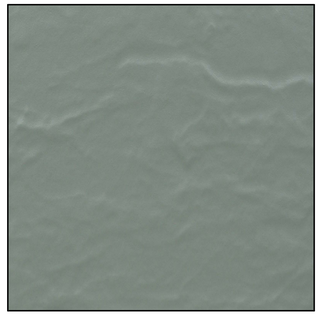


BRK-101
BRICK - ENTRY FEATURE WALL



CLD-101
FIBRE CEMENT CLADDING - FACADE PANEL



CLD-102
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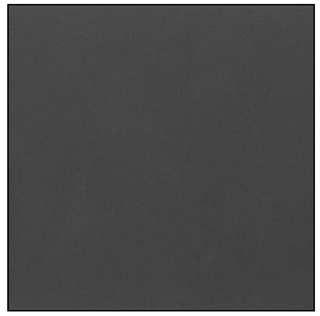
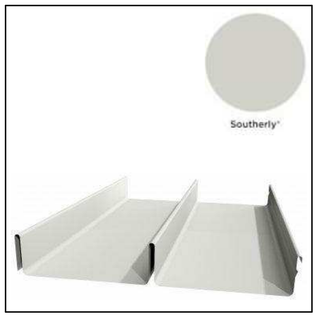


CLD-101
FIBRE CEMENT CLADDING - FACADE PANEL



RFS-101
STANDING SEAM ROOF SYSTEM

SCN-101
POWDER COATED ALUMINIUM BLADES

SCN-102
SUNHOOD - PERFORATED METAL SCREEN
COLOUR - CHARCOAL

WIN-101
EXTERNAL WINDOW

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Drawing Title
EXTERNAL FINISHES BOARD

Date 11/04/2023 5:47:38 PM
Scale 1 : 100 @ A1

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LOCATION PLAN

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21325-NBRS-AR-REF-0020

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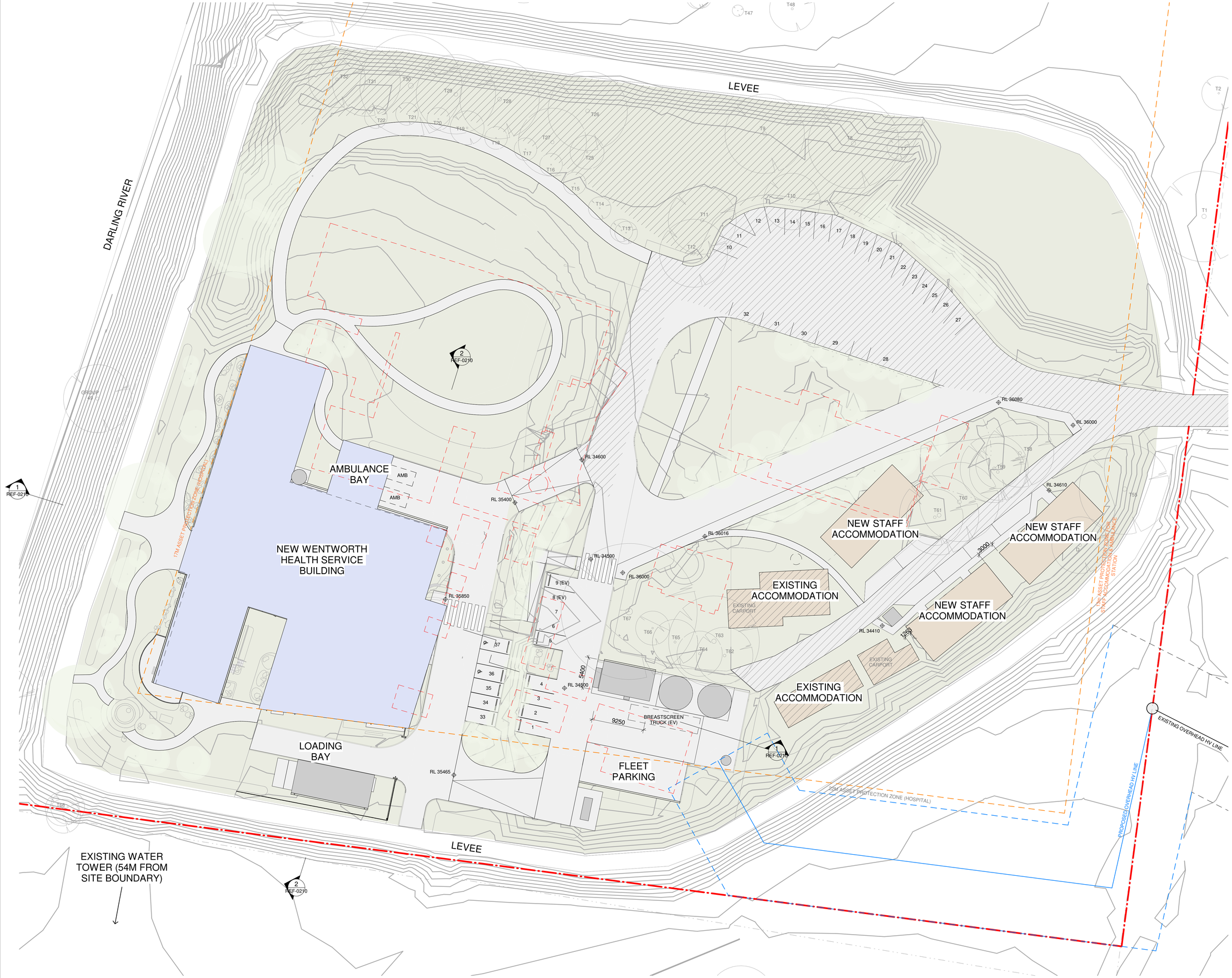

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LEGEND

- NEW HEALTH SERVICE BUILDING
- STAFF ACCOMMODATION
- EXTERNAL PLANT AND SERVICES
- FOOTPATHS, ROADS AND PARKING
- EXISTING ROADS AND PARKING RETAINED
- NEW OR MODIFIED LANDSCAPING
- EXISTING LANDSCAPE RETAINED
- DEMOLISHED BUILDINGS
- TITLE BOUNDARY
- ASSET PROTECTION ZONE BOUNDARY
- PROPOSED OVERHEAD HV LINE
- EASEMENT FOR PROPOSED HV LINE

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No.	Date	Description	Dwn	Chkd
1	24.11.22	Ref Issue		
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3	15.12.22	Ref Issue	AK	PR
4	20.12.22	Ref Issue	AK	PR
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Drawing Title
SITE PLAN

Date 11/04/2023 5:48:28 PM
Scale 1:300 @ A1

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21325-NBRS-AR-REF-0202

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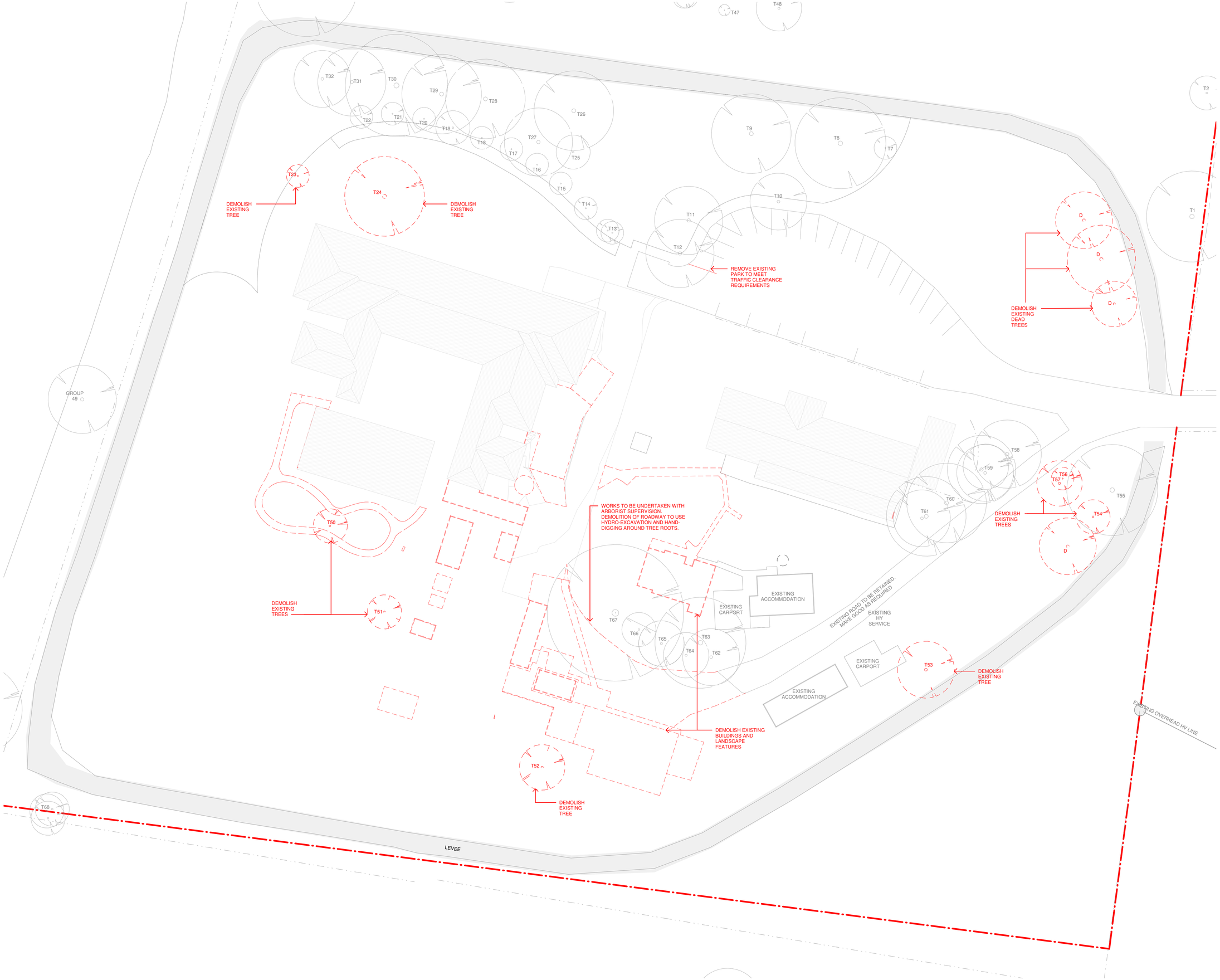

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Drawing Title
DEMOLITION PLAN - STAGE 1A

Date 11/04/2023 5:48:34 PM
Scale 1 : 300 @ A1

Drawing Reference
21325-NBRS-AR-REF-0203

Revision
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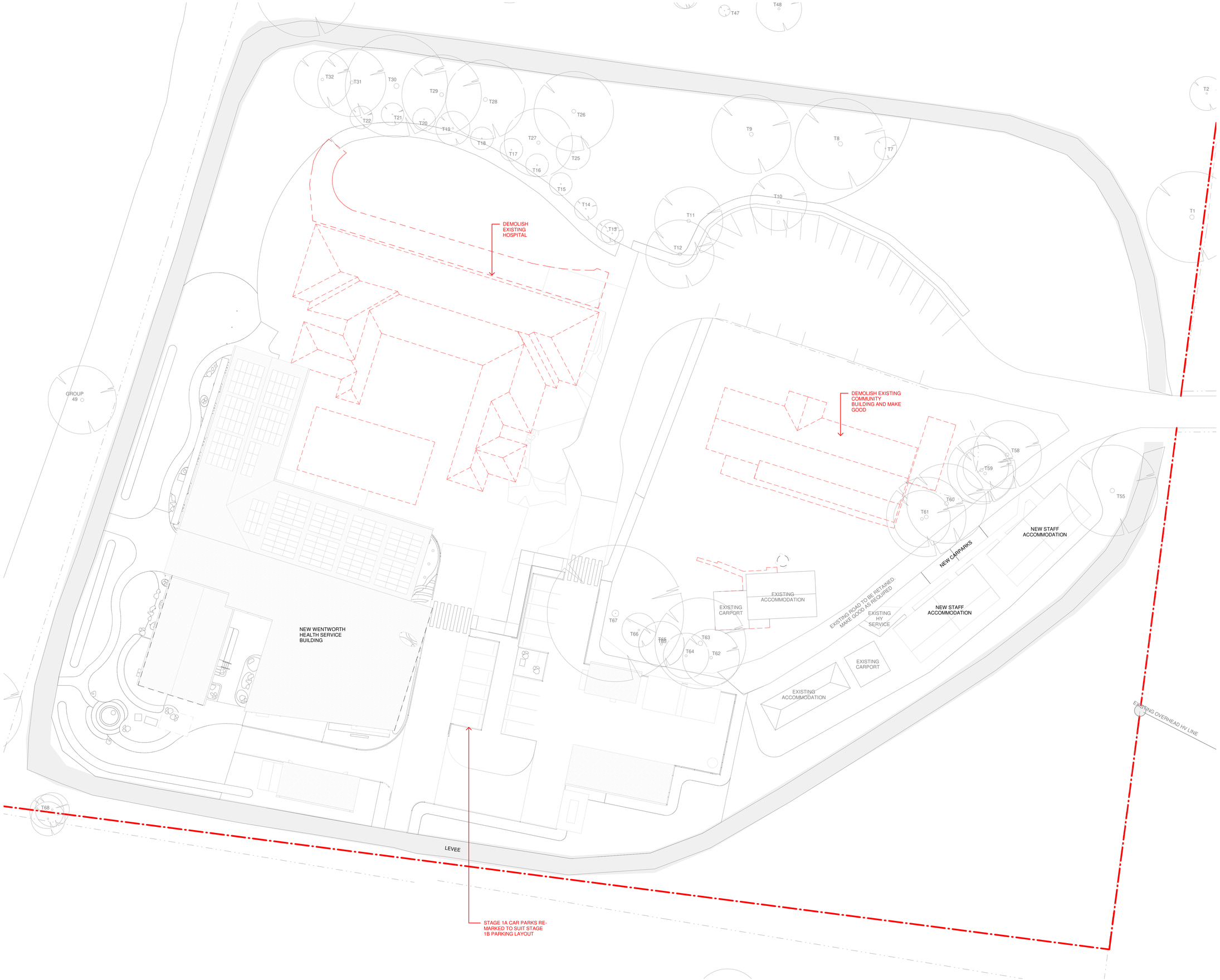

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Drawing Title
DEMOLITION PLAN - STAGE 1B

Date 11/04/2023 5:48:50 PM
Scale 1 : 300 @ A1

Drawing Reference
21325-NBRS-AR-REF-0204

Revision
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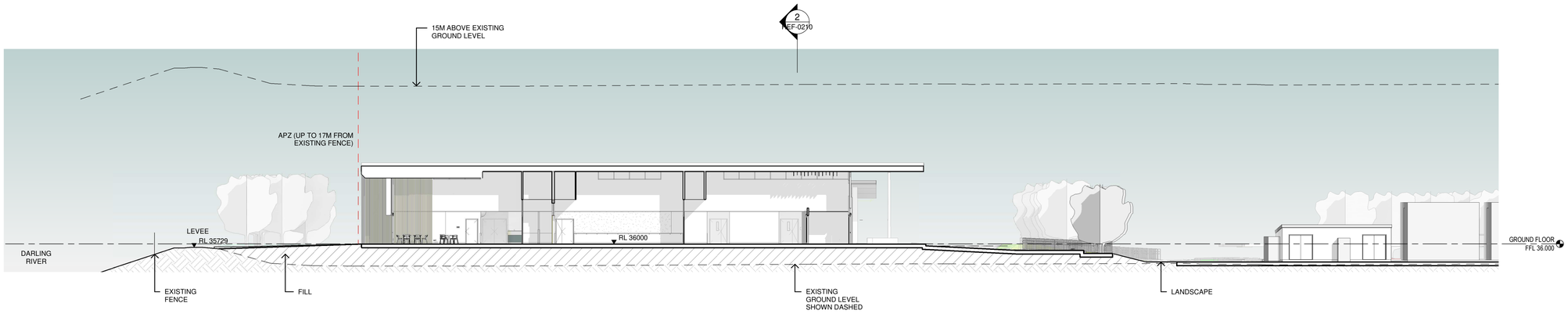

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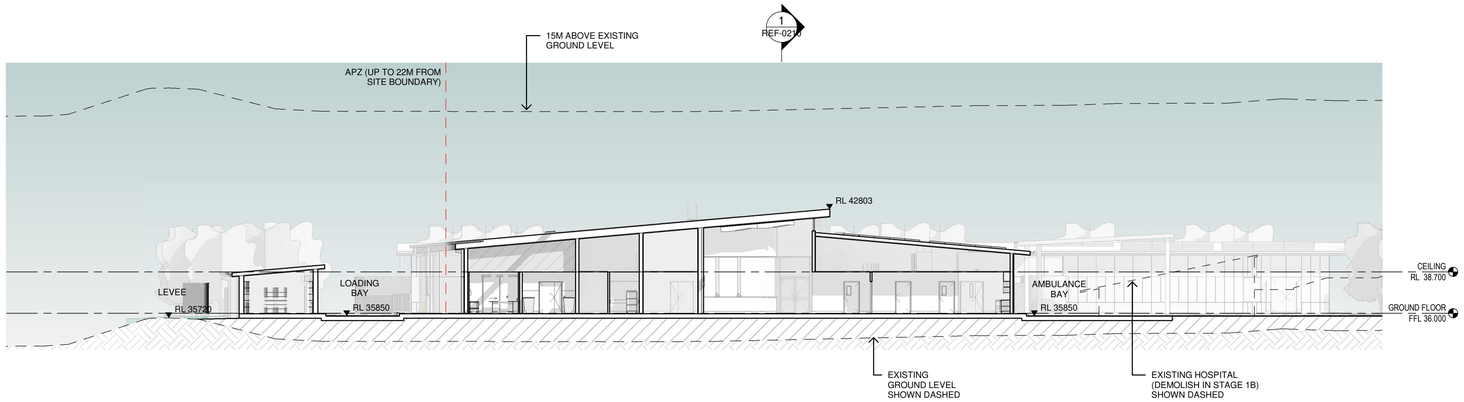

2 SITE SECTION - NORTH-SOUTH
1 : 200

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No.	Date	Description	Dwn	Chkd
1	24.11.22	Ref Issue		
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3	15.12.22	Ref Issue	AK	PR
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SITE SECTIONS

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5

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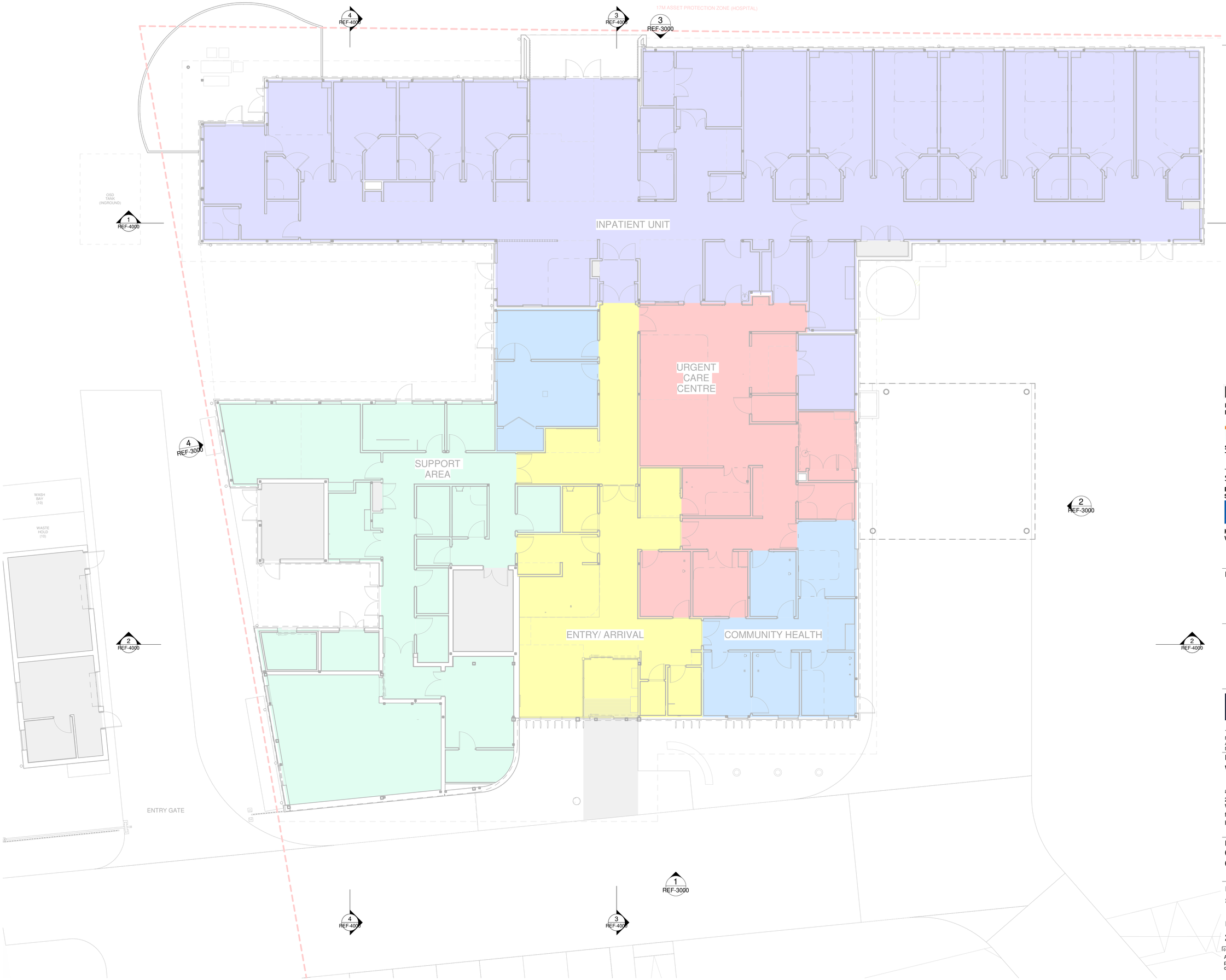

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No.	Date	Description	Dwn	Chkd
1	24.11.22	Ref Issue		
2	29.11.22	For Information		
3	15.12.22	Ref Issue	AK	PR
4	20.12.22	Ref Issue	AK	PR
5	03.04.2023	Ref Issue	AK	PR

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Drawing Title
GENERAL ARRANGEMENT PLAN - GROUND

Date 11/04/2023 5:49:25 PM
Scale 1 : 100 @ A1

Drawing Reference
21325-NBRS-AR-REF-1000

Revision
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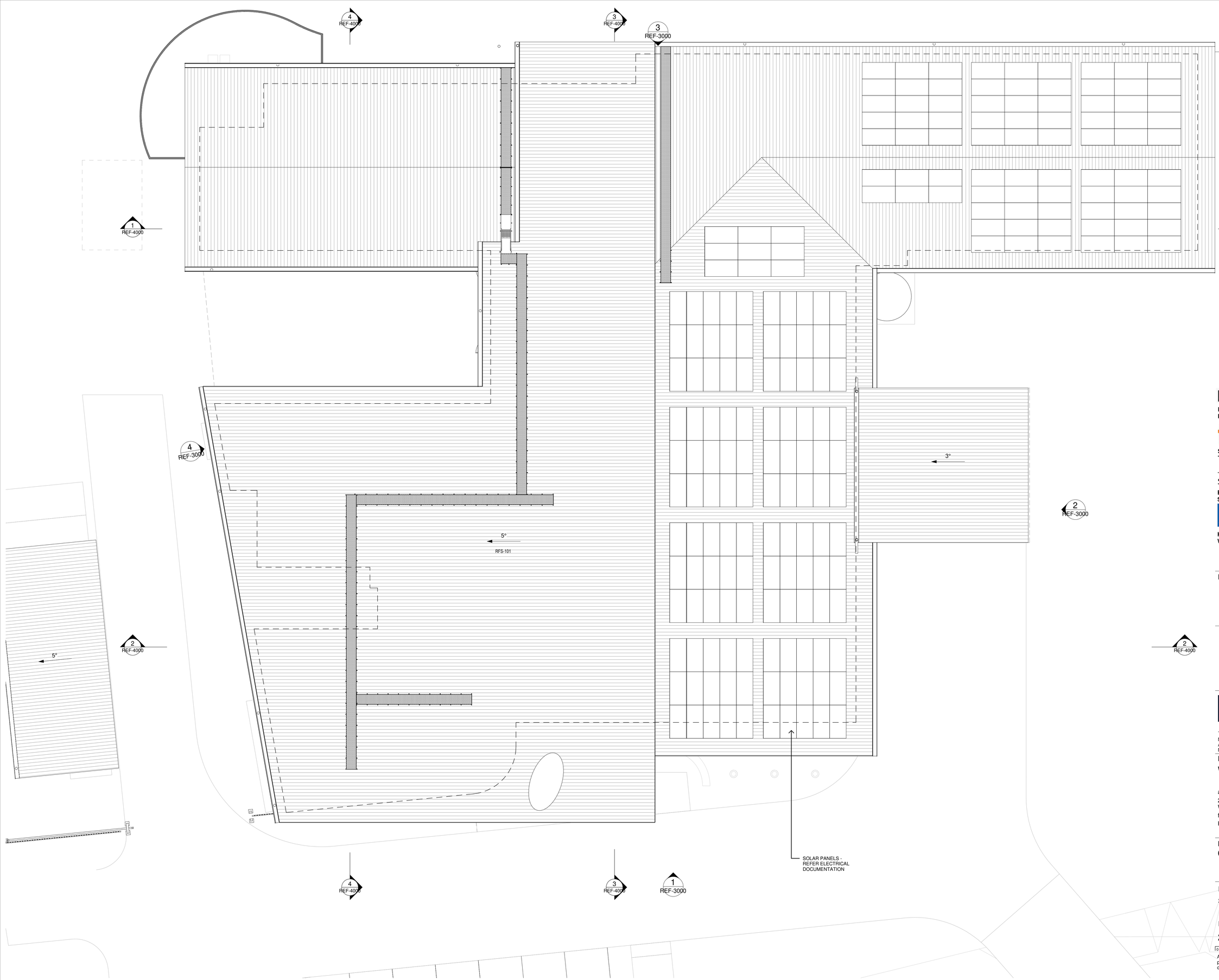

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Drawing Title
GENERAL ARRANGEMENT PLAN - ROOF

Date 11/04/2023 5:49:29 PM
Scale 1 : 100 @ A1

Drawing Reference
21325-NBRS-AR-REF-1001

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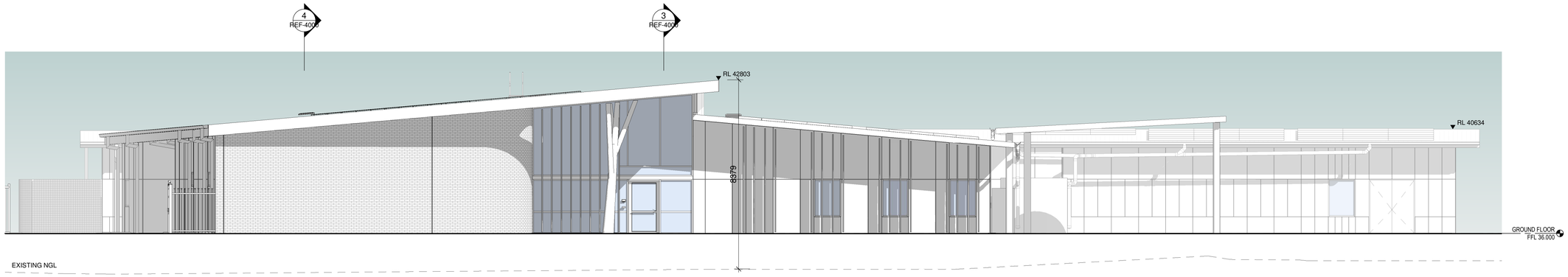

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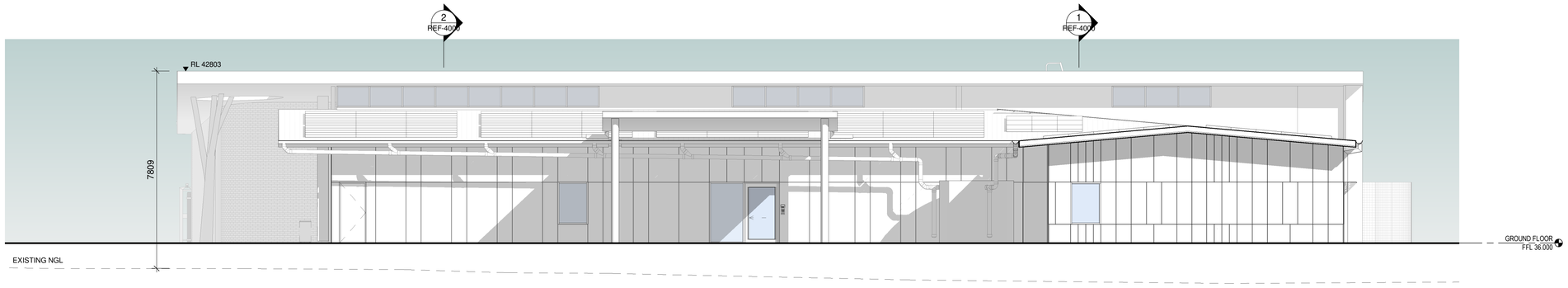

2 EXTERNAL ELEVATION - NORTH
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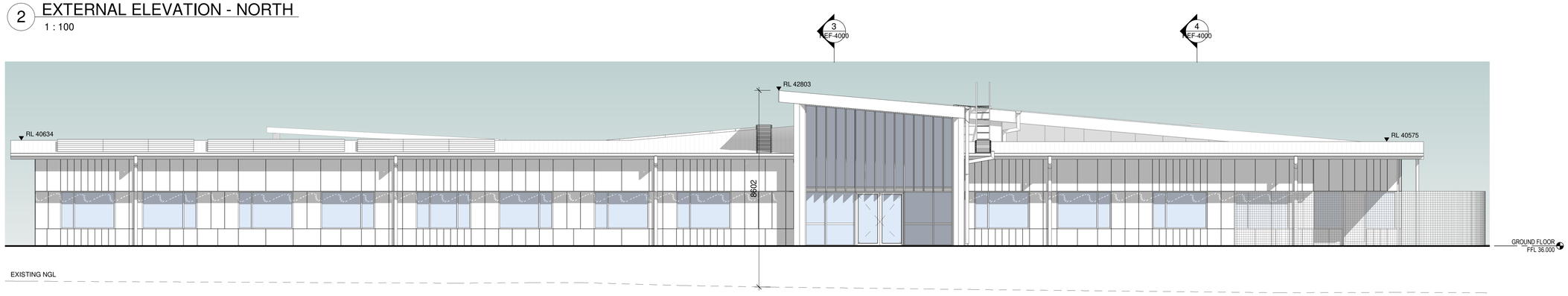

3 EXTERNAL ELEVATION - WEST
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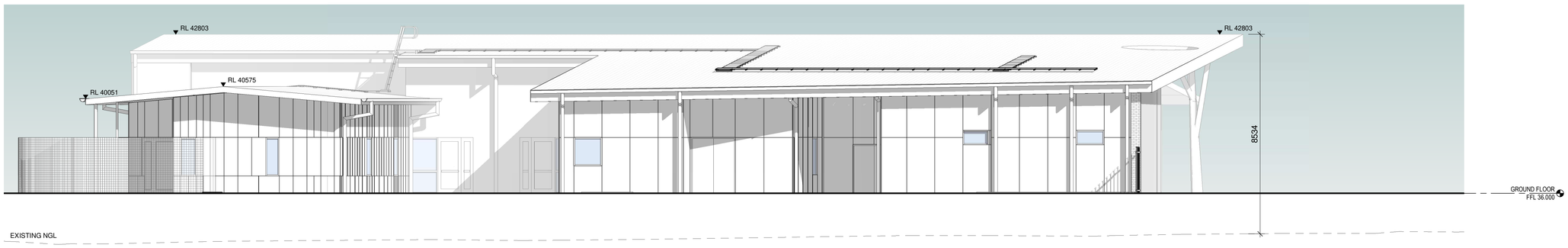

4 EXTERNAL ELEVATION - SOUTH
1 : 100

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No.	Date	Description	Dwn	Chkd
1	24.11.22	Ref Issue		
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3	15.12.22	Ref Issue	AK	PR
4	20.12.22	Ref Issue	AK	PR
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Drawing Title
EXTERNAL ELEVATIONS

Date 11/04/2023 5:50:12 PM
Scale 1 : 100 @ A1

Drawing Reference
21325-NBRS-AR-REF-3000

Revision
5

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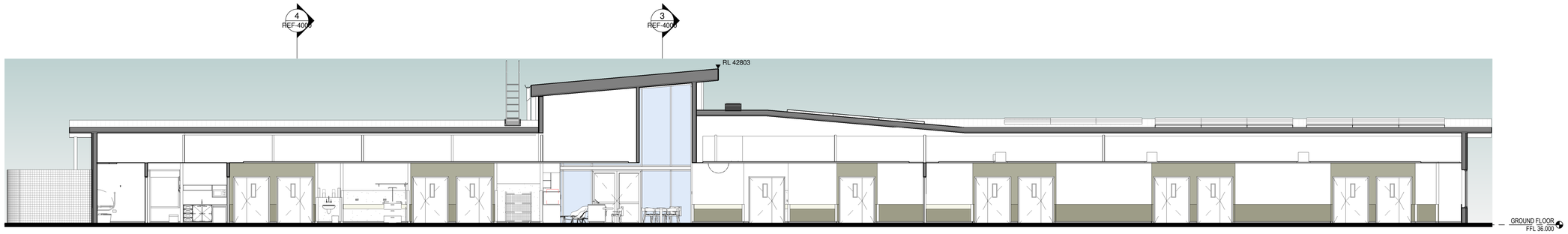

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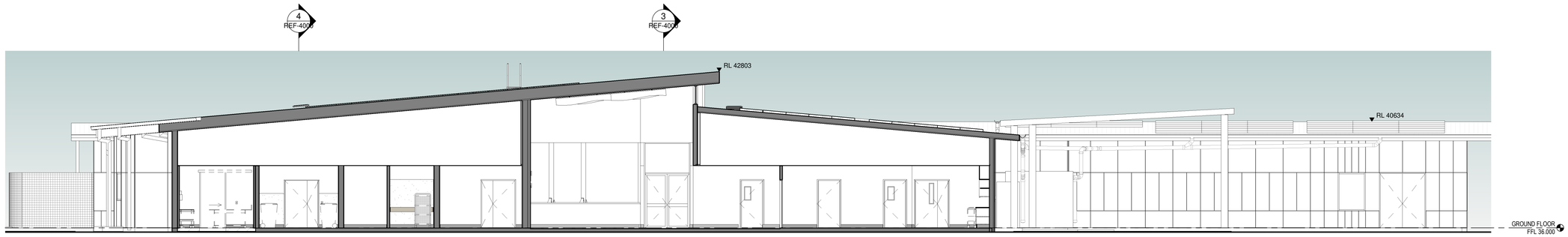
1 : 100



2 SECTION 2 - NORTH-SOUTH
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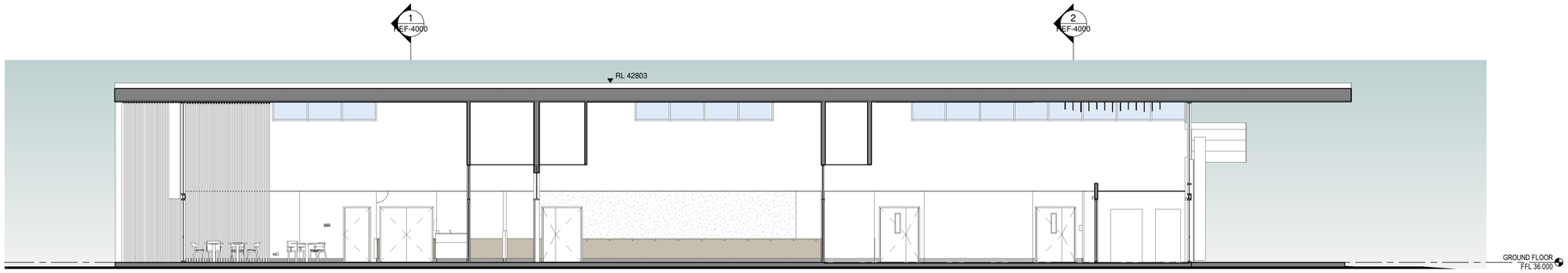

3 SECTION 3 - EAST-WEST
1 : 100

4 SECTION 4 - EAST-WEST
1 : 100

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No.	Date	Description	Dwn	Chkd
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Drawing Title
SECTIONS

Date 11/04/2023 5:50:24 PM
Scale 1 : 100 @ A1

Drawing Reference
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Revision
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THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT NOTES ON DRAWING C002

WENTWORTH HEALTH SERVICE REDEVELOPMENT

24 HOSPITAL ROAD, WENTWORTH, NSW, 2648

CIVIL DRAWINGS

DRAWING LIST	
Drawing No.	Drawing Name
C001	COVER SHEET
C002	NOTES AND LEGENDS SHEET
C100	EROSION AND SEDIMENT CONTROL PLAN
C210	SITE PLAN
C310	PAVEMENT AND JOINTING PLAN
C410	CUT & FILL PLAN

DRAWINGS TO BE PRINTED IN COLOUR
Y M C R G B K

Rev	Description	Eng	Draft	Date
2	REF ISSUE	RP	AE	11.04.23
1	ISSUED FOR SD	RP	AE	23.11.22

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BEWARE OF UNDERGROUND SERVICES.
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Project
WENTWORTH HEALTH SERVICE REDEVELOPMENT
24 HOSPITAL ROAD, WENTWORTH, NSW, 2648

Drawing Title
COVER SHEET

Architect
NBRS
+61 2 9922 2344
nbrs.com.au
Nominated Architect:
Andrew Duffin NSW 5602
NBRS & Partners Pty Ltd VIC 51197
ABN 16 002 247 565

Civil Engineer
TTW Structural Civil Traffic Façade
+61 2 9439 7288 | L6 73 Miller Street North Sydney NSW 2065

Scale: A1 Drawn: AE Authorised: RP

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

Job No	Drawing No	Revision
221039	C001	2

Plot File Created: Apr 11, 2023 - 6:33pm

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GENERAL NOTES

1. Contractor must verify all dimensions and existing levels on site prior to commencement of works. Any discrepancies to be reported to the ENGINEER
2. Strip all topsoil from the construction area. All stripped topsoil shall be disposed of off-site unless directed otherwise.
3. Make smooth connection with all existing works.
4. Compact subgrade under buildings and pavements to minimum 98% standard maximum dry density in accordance with AS 1289 5.1.1. Compaction under buildings to extend 2m minimum beyond building footprint.
5. All work on public property, property which is to become public property, or any work which is to come under the control of the Statutory Authority; the Contractor is to ensure that the drawings used for construction have been approved by all relevant authorities prior to commencement site.
6. All work on public property, property which is to become public property, or any work which is to come under the control of the Statutory Authority is to be carried out in accordance with the requirements of the relevant Authority. The Contractor shall obtain these requirements from the Authority. Where the requirements of the Authority are different to the drawings and specifications, the requirements of the Authority shall be applicable.
7. For all temporary batters refer to geotechnical recommendations.

REFERENCE DRAWINGS

1. These drawings have been based from, and to be read in conjunction with the following Consultants drawings. Any conflict to the drawings must be notified immediately to the Engineer.

Consultant	Dwg Title	Dwg No	Rev	Date
WALPOLE SVY	SURVEY	22072	4	07.10.22
NBRS	SITE PLAN - STAGE 1A	AR-0200	9	01.02.23
NBRS	SITE PLAN - STAGE 1B	AR-0201	9	01.02.23
NBRS	SITE PLAN - STAGE 2	AR-0202	9	01.02.23

SURVEY AND SERVICES INFORMATION

SURVEY

Origin of levels : CONTACT THE SURVEYOR
Datum of levels : A.H.D. VIDE SSM49545
Coordinate system : SURVEYOR TO CONFIRM
Survey prepared by : WALPOLE SVY
Setout Points : CONTACT THE SURVEYOR

Taylor Thomson Whitting does not guarantee that the survey information shown on these drawings is accurate and will accept no liability for any inaccuracies in the survey information provided to us from any cause whatsoever.

UNDERGROUND SERVICES - WARNING

The locations of underground services shown on Taylor Thomson Whittings drawings have been plotted from diagrams provided by service authorities. This information has been prepared solely for the authorities own use and may not necessarily be updated or accurate.

The position of services as recorded by the authority at the time of installation may not reflect changes in the physical environment subsequent to installation.

Taylor Thomson Whitting does not guarantee that the services information shown on these drawings shows more than the presence or absence of services, and will accept no liability for inaccuracies in the services information shown from any cause whatsoever.

The Contractor must confirm the exact location and extent of services prior to construction and notify any conflict with the drawings immediately to the Engineer/Superintendent.

The contractor is to get approval from the relevant state survey department, to remove/adjust any survey mark. This includes but is not limited to; State Survey Marks (SSM), Permanent Marks (PM), cadastral reference marks or any other survey mark which is to be removed or
adjusted in any way.
Taylor Thomson Whitting plans do not indicate the presence of any survey mark. The contractor is to undertake their own search.

BOUNDARY AND EASEMENT NOTE

The property boundary and easement locations shown on Taylor Thomson Whitting drawing's have been based from information received from : WALPOLE SVY
22072 Rev 4
Taylor Thomson Whitting makes no guarantees that the boundary or easement information shown is correct.
Taylor Thomson Whitting will accept no liabilities for boundary inaccuracies. The contractor/builder is advised to check/confirm all boundaries in relation to all proposed work prior to the commencement of construction. Boundary inaccuracies found are to be reported to the superintendent prior to construction starting.

STORMWATER DRAINAGE NOTES

1 Stormwater Design Criteria :
(A) Average exceedance probability -
1% AEP for roof drainage to first external pit
5% AEP for paved and landscaped areas
(B) Rainfall intensities -
Time of concentration: 12 minutes
1% AEP = 150 mm/hr
5% AEP = 98 mm/hr
(C) Rainfall losses -
Impervious areas: IL = 1.5 mm , CL = 0 mm/hr
Pervious areas: IL = 29mm , CL = 2 mm/hr

2. Pipes 300 dia and larger to be reinforced concrete Class "2" approved spigot and socket with rubber ring joints U.N.O.
5. Precast pits may be used external to the building subject to approval by Council.
6. Enlargers, connections and junctions to be manufactured fittings where pipes are less than 300 dia.
7. Where subsoil drains pass under floor slabs and vehicular pavements, unslotted uPVC sewer grade pipe is to be used.
8. Grates and covers shall conform with AS 3996-2006, and AS 1428.1 for access requirements.
9. Pipes are to be installed in accordance with AS 3725. All bedding to be type H2 U.N.O.
10. Care is to be taken with invert levels of stormwater lines. Grades shown are not to be reduced without approval.
11. All stormwater pipes to be 150 dia at 1.0% min fall U.N.O.
12. Subsoil drains to be slotted flexible uPVC U.N.O.
13. Adopt invert levels for pipe installation (grades shown are only nominal).
14. All drainage works to be installed in accordance with PCC standard details.

SITEWORKS NOTES

1. All basecourse material to comply with RMS specification No 3051 and compacted to minimum 98% modified standard dry density in accordance with AS 1289 5.2.1.
2. All trench backfill material shall be compacted to the same density as the adjacent material.
3. All service trenches under vehicular pavements shall be backfilled with an approved select material and compacted to a minimum 98% standard maximum dry density in accordance with AS 1289 5.1.1

KERBING NOTES

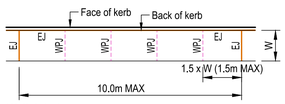
Includes all kerbs, gutters, dish drains, crossings and edges.

1. All kerbs, gutters, dish drains and crossings to be constructed on minimum 75mm granular basecourse compacted to minimum 98% modified maximum dry density in accordance with AS 1289 5.2.1.
2. Expansion joints (EJ) to be formed from 10mm compressible cork filler board for the full depth of the section and cut to profile. Expansion joints to be located at drainage pits, on tangent points of curves and elsewhere at 12m centres except for integral kerbs where the expansion joints are to match the joint locations in slabs.
3. Weakened plane joints to be min 3mm wide and located at 3m centres except for integral kerbs where weakened plane joints are to match the joint locations in slabs.
4. Broomed finished to all ramped and vehicular crossings, all other kerbing or dish drains to be steel float finished.
5. In the replacement of kerbs -
Existing road pavement is to be sawcut 900mm from lip of gutter. Upon completion of new kerbs, new basecourse and surface is to be laid 900mm wide to match existing materials and thicknesses.
Existing allotment drainage pipes are to be built into the new kerb with a 100mm dia hole.
Existing kerbs are to be completely removed where new kerbs are shown.

JOINTING NOTES

Pedestrian Footpath Jointing

1. Expansion joints (EJ) are to be located where possible at tangent points of curves and elsewhere at max 10.0m centres.
2. Weakened plane joints (WPJ) are to be located at a max 1.5 x width of the pavement.
3. Where possible joints should be located to match kerbing and / or adjacent pavement joints.
4. All pedestrian footpath jointings as follows U.N.O.



Wall Jointing

1. For concrete walls, weakened plane joints (WPJ) or control joints (CJ) to be located at a maximum of 8.0m centres. Expansion joints (EJ) to be located at a maximum of 30.0m centres U.N.O.
2. For blockwork walls, dowelled control joints (CJ) to be located at maximum of 8.0m spacing U.N.O.

CONCRETE FINISHING NOTES

1. All exposed concrete pavements are to be broomed finished unless noted otherwise in the Landscape Drawings/Specifications.
2. All edges of the concrete pavement including keyed and dowelled joints are to be finished with an edging tool.
3. Concrete pavements with grades greater than 10 % shall be heavily broomed finished.
4. Carborundum to be added to all stair treads and ramped crossings U.N.O.

BULK EARTHWORKS NOTES

1. Contractor to reference geotechnical report for subgrade preparation requirements
2. All batters at a maximum slope to be confirmed and subject to geotechnical engineer advice.
3. Excavated material may be used as structural fill provided,
(i) it complies with the specification requirements for fill material,
(ii) the placement moisture content complies with the Geotechnical Consultants requirements, and allows filling to be placed and proof-rolled in accordance with the specification. Where necessary the Contractor must moisture condition the excavated material to meet these requirements.
4. Compact fill areas and subgrade to not less than:

Location	Standard dry density (AS 1289 5.1.1.)	Optimum moisture content (OMC)
Under building slabs on ground:	98%	±2%
Under roads and carparks:	98%	±2%
Landscaped areas:	95%	±2%

5. Before placing fill, proof roll exposed subgrade with a 10 tonne minimum roller to test subgrade and then remove soft spots (areas with more than 3mm movement under roller).
Soft spots to be replaced with granular fill unless noted otherwise.
6. Contractor shall place safety barriers around excavations in accordance with relevant safety regulations.
7. Bulk earthworks drawings are not to be used for detailed excavation in landscape zones. Contractor to make allowance for additional fill or cut through landscape zones.
8. Contractor to review landscape drawings to confirm softscape profile depths
9. Strip all topsoil from the construction area. All stripped topsoil shall be disposed of off-site unless directed otherwise.
10. Make smooth connection with all existing works
11. Compact subgrade under buildings and pavements to minimum 98% standard maximum dry density in accordance with AS1289.5.1.1. Compaction under buildings to extend 2.0m minimum beyond building footprint
12. Temporary stormwater control and connections to be managed onsite by the builder/contractor
13. Site to be free draining and subgrade to be protected from moisture ingress.
14. Dewatering to be managed by contractor at all times.
15. Quantities to underlying geology such as rock or natural clay are indicative only and based on the geotechnical information available at the time of issue. Underlying natural clay and rock levels can be highly variable between geotech sample locations.
16. All earthworks activities shall be undertaken with level 1 supervision in accordance with AS3798 (2007) by a suitably qualified geotechinical inspection and testing authority (GITA) engaged by the contractor. As a minimum, the frequency and location of testing shall be in accordance with table 8.1 of AS3798 (2007). The GITA is to maintain daily site record sheets as set out in AS3798 (2007)

EROSION AND SEDIMENT CONTROL NOTES

1. All work shall be generally carried out in accordance with
(A) Local authority requirements,
(B) EPA - Pollution control manual for urban stormwater,
(C) LANDCOM NSW - Managing Urban Stormwater: Soils and Construction ("Blue Book").
2. The erosion and sediment control shall be implemented and adapted to meet the varying situations as work on site progresses.
3. Maintain all erosion and sediment control devices to the satisfaction of the superintendent and the local authority.
4. When stormwater pits are constructed prevent site runoff entering the pits unless silt fences are erected around pits.
5. Minimise the area of site being disturbed at any one time.
6. Protect all stockpiles of materials from scour and erosion. Do not stockpile loose material in roadways, near drainage pits or in watercourses.
7. All soil and water control measures are to be put back in place at the end of each working day, and modified to best suit site conditions.
8. Control water from upstream of the site such that it does not enter the disturbed site.
9. All construction vehicles shall enter and exit the site via the temporary construction entry/exit.
10. All vehicles leaving the site shall be cleaned and inspected before leaving.
11. Maintain all stormwater pipes and pits clear of debris and sediment. Inspect stormwater system and clean out after each storm event.
12. Clean out all erosion and sediment control devices after each storm event.

Sequence Of Works

1. Prior to commencement of excavation the following soil management devices must be installed.
1.1. Construct silt fences below the site and across all potential runoff sites.
1.2. Construct temporary construction entry/exit and divert runoff to suitable control systems.
1.3. Construct measures to divert upstream flows into existing stormwater system.
1.4. Construct sedimentation traps/basin including outlet control and overflow.
1.5. Construct turf lined swales.
1.6. Provide sandbag sediment traps upstream of existing pits.
2. Construct geotextile filter pit surround around all proposed pits as they are constructed.
3. On completion of pavement provide sand bag kerb inlet sediment traps around pits.
4. Provide and maintain a strip of turf on both sides of all roads after the construction of kerbs.

WATER QUALITY TESTING REQUIREMENTS

Prior to discharge of site stormwater, groundwater and seepage water
into council's stormwater system, contractors must undertake water quality tests in conjunction with a suitably qualified environment consultant outlining the following:

- Compliance with the criteria of the Australian and New Zealand Guidelines for Fresh and Marine Water Quality (2000)
- If required subject to the environmental consultants advice, provide remedial measures to improve the quality of water that is to be discharged into Councils storm water drainage system.This should include comments from a suitably qualified environmental consultant confirming the suitability of these remedial measures to manage the water discharged from the site into Councils storm water drainage system. Outlining the proposed, ongoing monitoring, contingency plans and validation program that will be in place to continually monitor the quality of water discharged from this site. This should outline the frequency of water quality testing that will be undertaken by a suitably qualified environmental consultant.

SAFETY IN DESIGN

Contractor to refer to Appendix B of the Civil Specification for the Civil Risk and Solutions Register.

EXISTING SERVICES

Contractor to be aware existing services are located within the site. Location of all services to be verified by the Contractor prior to commencing works. Contractor to confirm with relevant authority regarding measures to be taken to ensure services are protected or procedures are in place to demolish and/or relocate.

EXISTING STRUCTURES

Contractor to be aware existing structures may exist within the site. To prevent damage to existing structure(s) and/or personnel, site works to be carried out as far as practicably possible from existing structure(s).

EXISTING TREES

Contractor to be aware existing trees exist within the site which need to be protected. To prevent damage to trees and/or personnel, site works to be carried out as far as practicably possible from existing trees. Advice needs to be sought from Arborist and/or Landscape Architect on measures required to protect trees. Refer to report 'ARB_220623_TreeIQ Wentworth Health Service Preliminary Advice' by TreeiQ dated 23/06/22.

GROUNDWATER

Contractor to be aware ground water levels are close to existing surface level. Temporary de-watering may be required during construction works.

EXCAVATIONS

Deep excavations due to stormwater drainage works is required. Contractor to ensure safe working procedures are in place for works. All excavations to be fenced off and batters adequately supported to approval of Geotechnical Engineer.

GROUND CONDITIONS

Contractor to be aware of the site geotechnical conditions. Refer to geotechnical report by JK Geotechnics (16 Nov 2017, ref:30993Zrpt) for details.

HAZARDOUS MATERIALS

Existing asbestos products & contaminated material are present on site. Contractor to ensure all hazardous materials are identified prior to commencing works. Safe working practices as per relevant authority to be adopted and appropriate PPE to be used when handling all hazardous materials. Remediation of ACM exposed on site shall be undertaken in accordance with the requirements noted in the Remediation Action Plan (RAP) by JBS&G. ACM volumes are indicative only and are based on nominal 150mm depth across area noted in the detailed site investigation report by JBS&G.

CONFINED SPACES

Contractor to be aware of potential hazards due to working in confined spaces such as stormwater pits, trenches and/or tanks. Contractor to provide safe working methods and use appropriate PPE when entering confined spaces.

MANUAL HANDLING

Contractor to be aware manual handling may be required during construction. Contractor to take appropriate measures to ensure manual handling procedures and assessments are in place prior to commencing works.

WATER POLLUTION

Contractor to ensure appropriate measures are taken to prevent pollutants from construction works contaminating the surrounding environment.

SITE ACCESS/EGRESS

Contractor to be aware site works occur in close proximity to footpaths and roadways. Contractor to erect appropriate barriers and signage to protect site personnel and public.

VEHICLE MOVEMENT

Contractor to supply and comply with traffic management plan and provide adequate site traffic control including a certified traffic marshall to supervise vehicle movements where necessary.

SITEWORKS LEGEND

× F22.20	FINISHED SURFACE LEVEL
22.00	FINISHED MAJOR CONTOUR
22.10	FINISHED MINOR CONTOUR
	PROPERTY BOUNDARY
K&G	KERB AND GUTTER
KO	KERB ONLY
K&G - O	KERB AND GUTTER WITH OPENINGS
IL 10.20	STORMWATER PIT AND DRAIN
GT	GRATED TRENCH
AG	AG (SUBSOIL) DRAIN
GI	GRATED INLET / FLOOR WASTE
	CONCRETE ENDWALL
IO	INSPECTION OPENING WITH SUBSOIL DRAINAGE LINE (100 DIA)
FP	FLUSHOUT POINT WITH SUBSOIL DRAINAGE LINE (100 DIA)
DP	DOWN PIPE
	OVERLAND FLOWPATH
RW	RETAINING WALL
	BATTER
	SAWCUT JOINT
	EXPANSION JOINT
	DOWELLED SAWCUT JOINT
	DOWELLED EXPANSION JOINT
	BIO SWALE
	GRASSED SWALE
	GUARD RAIL
	FENCE
TPZ TPZ	TREE PROTECTION ZONE
SRZ SRZ	STRUCTURAL ROOT ZONE

EXISTING SERVICES LEGEND

eT eT	TELECOM
eG eG	GAS
eE eE	ELECTRICAL
eO eO	ELECTRICAL (OVERHEAD)
eW eW	WATER
eD eD	STORM WATER
eS eS	SEWER

DRAWINGS TO BE PRINTED IN Y M C R G B K

WORKS NEAR EXISTING SERVICES
ALL EXISTING UNDERGROUND SERVICES ARE TO BE LOCATED ON SITE PRIOR TO COMMENCING WORKS

WORKS NEAR EXISTING TREES
PRECAUTIONS ARE TO BE UNDERTAKEN TO ENSURE EXISTING TREES IN THE VICINITY OF WORKS ARE NOT DAMAGED DURING CONSTRUCTION ACTIVITIES

CIVIL SPECIFICATIONS
DRAWINGS TO BE READ IN CONJUNCTION WITH THE CIVIL SPECIFICATION. REFER APPENDIX A FOR INSPECTION HOLD POINTS

HIGH VOLTAGE ELECTRICAL CABLE
PRECAUTIONS ARE TO BE UNDERTAKEN TO ENSURE HIGH VOLTAGE CABLE IN THE VICINITY OF WORKS IS NOT DAMAGED DURING CONSTRUCTION ACTIVITIES.
LIAISE WITH ASSET OWNER AS REQUIRED

EXISTING STORMWATER ASSETS
SIZE, INVERT LEVEL AND CONDITION OF ALL AFFECTED EXISTING STORMWATER ASSETS TO BE CONFIRMED PRIOR TO COMMENCING WORKS

Rev	Description	Eng	Draft	Date
2	REF ISSUE	RP	AE	11.04.23
1	ISSUED FOR SD	RP	AE	23.11.22

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WENTWORTH HEALTH SERVICE REDEVELOPMENT
24 HOSPITAL ROAD, WENTWORTH, NSW, 2648

Drawing Title
NOTES AND LEGENDS SHEET

Architect
NBRS
+61 2 9922 2344 nbrs.com.au
Nominated Architect:
Andrew Duffin NSW 5602
NBRS & Partners Pty Ltd VIC 51197 ABN 16 002 247 565

Civil Engineer
TTW Structural Civil Traffic Façade
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Scale: A1 Drawn: AE Authorised: RP

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Job No	Drawing No	Revision
221039	C002	2

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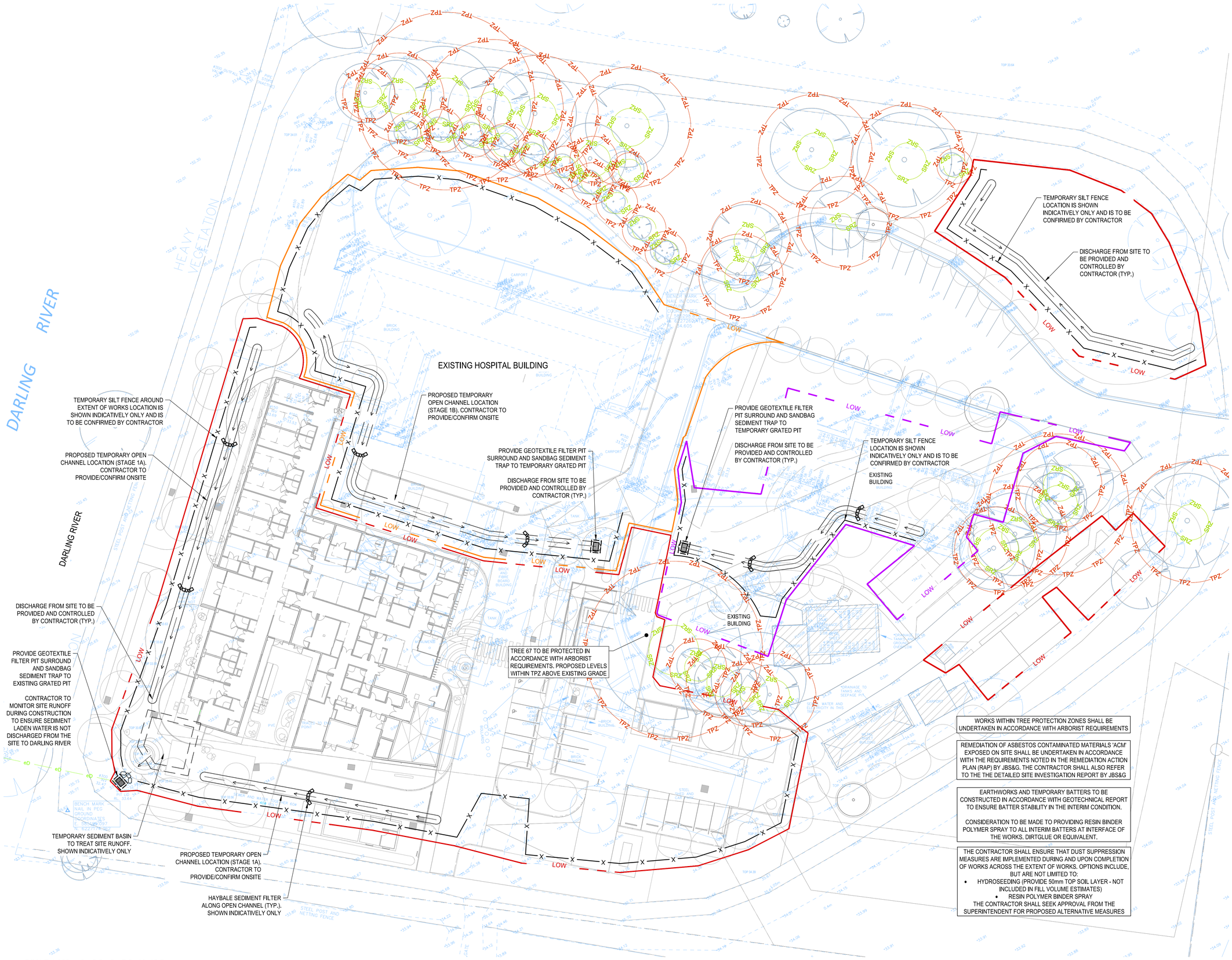

SCALE 1:300 AT ORIGINAL SIZE 0 2.5 5 7.5 10 12.5 m

WORKS WITHIN TREE PROTECTION ZONES SHALL BE UNDERTAKEN IN ACCORDANCE WITH ARBORIST REQUIREMENTS

REMEDIATION OF ASBESTOS CONTAMINATED MATERIALS 'ACM' EXPOSED ON SITE SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE REQUIREMENTS NOTED IN THE REMEDIATION ACTION PLAN (RAP) BY JBS&G. THE CONTRACTOR SHALL ALSO REFER TO THE THE DETAILED SITE INVESTIGATION REPORT BY JBS&G

EARTHWORKS AND TEMPORARY BATTERS TO BE CONSTRUCTED IN ACCORDANCE WITH GEOTECHNICAL REPORT TO ENSURE BATTER STABILITY IN THE INTERIM CONDITION.

CONSIDERATION TO BE MADE TO PROVIDING RESIN BINDER POLYMER SPRAY TO ALL INTERIM BATTERS AT INTERFACE OF THE WORKS. DIRTGLUE OR EQUIVALENT.

THE CONTRACTOR SHALL ENSURE THAT DUST SUPPRESSION MEASURES ARE IMPLEMENTED DURING AND UPON COMPLETION OF WORKS ACROSS THE EXTENT OF WORKS. OPTIONS INCLUDE, BUT ARE NOT LIMITED TO:

- HYDROSEEDING (PROVIDE 50mm TOP SOIL LAYER - NOT INCLUDED IN FILL VOLUME ESTIMATES)
- RESIN POLYMER BINDER SPRAY

THE CONTRACTOR SHALL SEEK APPROVAL FROM THE SUPERINTENDENT FOR PROPOSED ALTERNATIVE MEASURES

EROSION AND SEDIMENT CONTROL LEGEND

- SILTATION FENCE
- STORMWATER PIT WITH GEOTEXTILE FILTER SURROUND
- HAY BALE BARRIERS
- SANDBAG SEDIMENT TRAP
- CATCH DRAIN / OPEN CHANNEL
- STAGE 1A - LIMIT OF WORKS BOUNDARY (INDICATIVE)
- STAGE 1B - LIMIT OF WORKS BOUNDARY (INDICATIVE)
- STAGE 2 - LIMIT OF WORKS BOUNDARY (INDICATIVE)
- TREE PROTECTION ZONE
- STRUCTURAL ROOT ZONE

Rev	Description	Eng	Draft	Date
1	REF ISSUE	RP	AE	11.04.23

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Drawing Title
EROSION AND SEDIMENT CONTROL PLAN

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ABN 16 002 247 565

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Scale: A1 Drawn: AE Authorised: RP

Job No	Drawing No	Revision
221039	C100	1

Plot File Created: Apr 11, 2023 - 6:34pm

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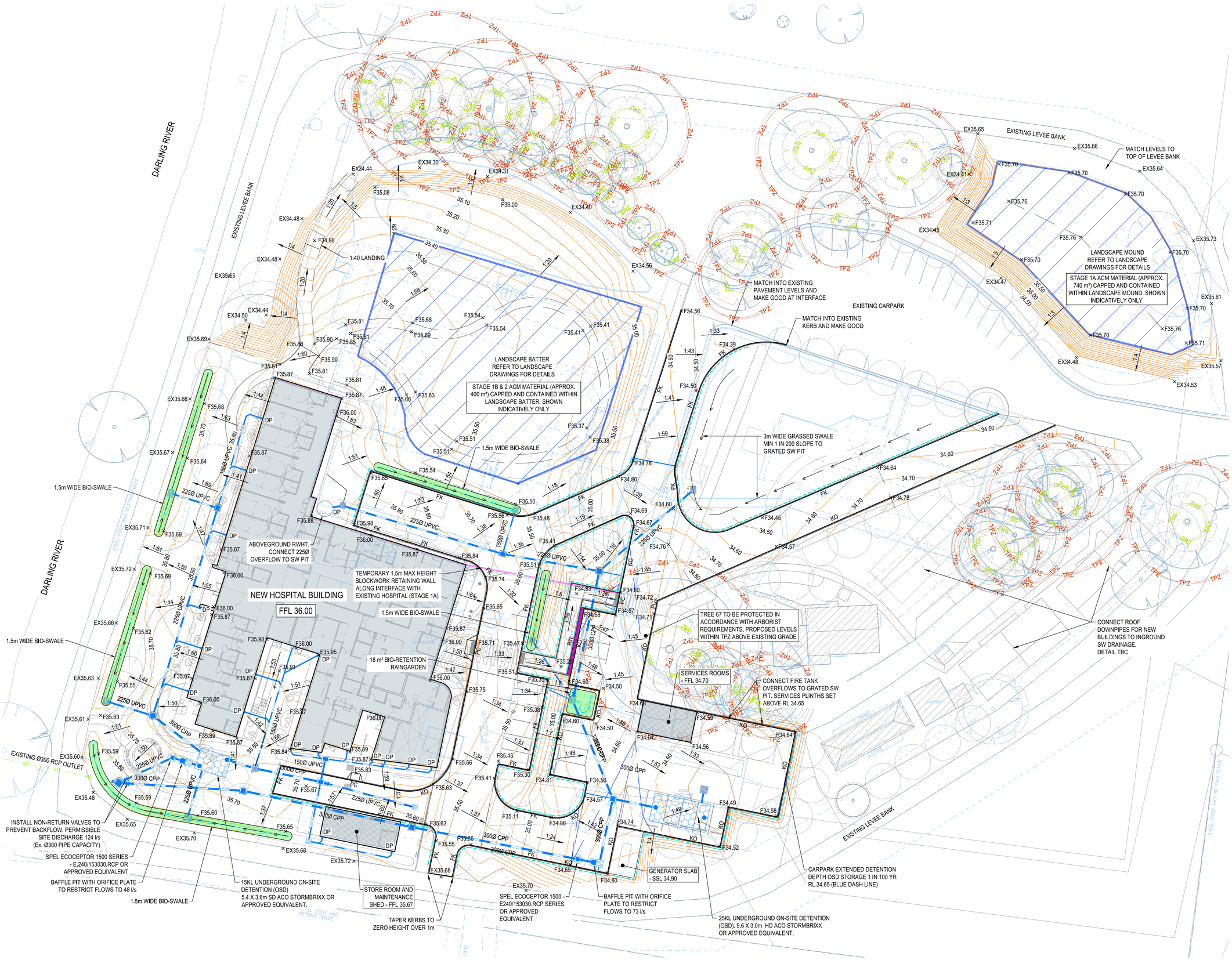

SCALE 1:300 AT ORIGINAL SIZE 0 2.5 5 7.5 10 12.5 m

SITEWORKS LEGEND

× F22.20	FINISHED SURFACE LEVEL
22.00	FINISHED MAJOR CONTOUR
22.10	FINISHED MINOR CONTOUR
	PROPERTY BOUNDARY
K&G	KERB AND GUTTER
KO	KERB ONLY
FK	FLUSH KERB
IL 10.20	STORMWATER PIT AND DRAIN
GT	GRATED TRENCH
AG	AG (SUBSOIL) DRAIN
GI	GRATED INLET / FLOOR WASTE
	CONCRETE ENDWALL
IO	INSPECTION OPENING WITH SUBSOIL DRAINAGE LINE (100 DIA)
FP	FLUSHOUT POINT WITH SUBSOIL DRAINAGE LINE (100 DIA)
DP	DOWN PIPE
	OVERLAND FLOWPATH
RW	RETAINING WALL
	BATTER
	BIO SWALE
	GRASSED SWALE
TPZ	TREE PROTECTION ZONE
SRZ	STRUCTURAL ROOT ZONE
	PROPOSED ACM CAP AND CONTAIN LOCATION

Rev	Description	Eng	Draft	Date
3	REF ISSUE	RP	AE	11.04.23
2	ISSUED FOR SD	RP	AE	23.11.22
1	ISSUED FOR DRAFT SD	RP	AE	21.11.22

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Job No	Drawing No	Revision
221039	C210	3

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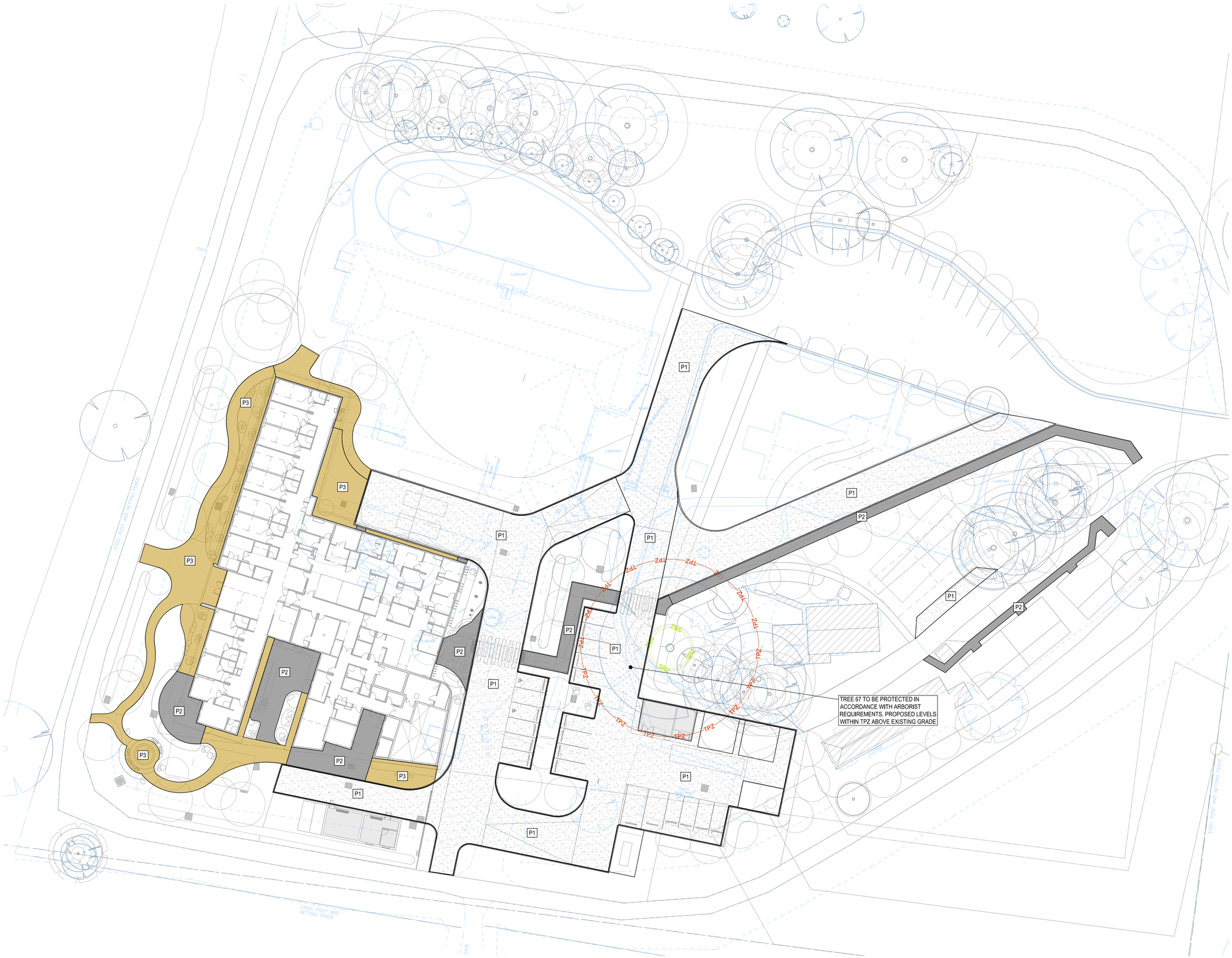

PAVEMENT LEGEND

P1 — ASPHALT VEHICULAR PAVEMENT
40mm thickness asphalt (AC14) with primerseal on 170mm compacted thickness DGB20 or equivalent on 250mm select fill material (Ev=150Mpa) on evenly compacted sub-grade to 100% standard maximum dry density in accordance with A.S.1289.5.1.1 (Min. CBR 3.0%)

P2 — CONCRETE PEDESTRIAN PAVEMENT
125mm thickness concrete (f'c = 32MPa) with SL62 fabric mesh (40 cover) on 100mm compacted thickness DGB20 on evenly compacted sub-grade to 100% standard maximum dry density in accordance with A.S.1289.5.1.1 (Min. CBR 3.0%)

P3 — GRAVEL/PERMEABLE PAVEMENT
Refer to Landscape Specifications for details

ANY UNCONTROLLED/SOFT SPOT TO BE REMOVED AND BACKFILL WITH ENGINEERING FILL/PROOF ROLL AND COMPACTED IN ACCORDANCE WITH GEOTECHNICAL ENGINEER'S RECOMMENDATION

REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION REQUIREMENTS

Rev	Description	Eng	Draft	Date
3	REF ISSUE	RP	AE	11.04.23
2	ISSUED FOR SD	RP	AE	23.11.22
1	ISSUED FOR DRAFT SD	RP	AE	21.11.22

DIAL BEFORE YOU DIG www.1100.com.au

BEWARE OF UNDERGROUND SERVICES.
THE LOCATION OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN

Project
WENTWORTH HEALTH SERVICE REDEVELOPMENT
24 HOSPITAL ROAD, WENTWORTH, NSW, 2648

Drawing Title
PAVEMENT AND JOINTING PLAN

Architect
NBRS
+61 2 9922 2344 nbrs.com.au
Nominated Architect:
Andrew Duffin NSW 5602
NBRS & Partners Pty Ltd VIC 51197 ABN 16 002 247 565

Civil Engineer
TTW Structural Civil Traffic Façade
+61 2 9439 7288 | L6 73 Miller Street North Sydney NSW 2065

Scale: A1 Drawn: AE Authorised: RP

Job No	Drawing No	Revision
221039	C310	3

Plot File Created: Apr 11, 2023 - 6:48pm

SCALE 1:300 AT ORIGINAL SIZE 0 2.5 5 7.5 10 12.5 m

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

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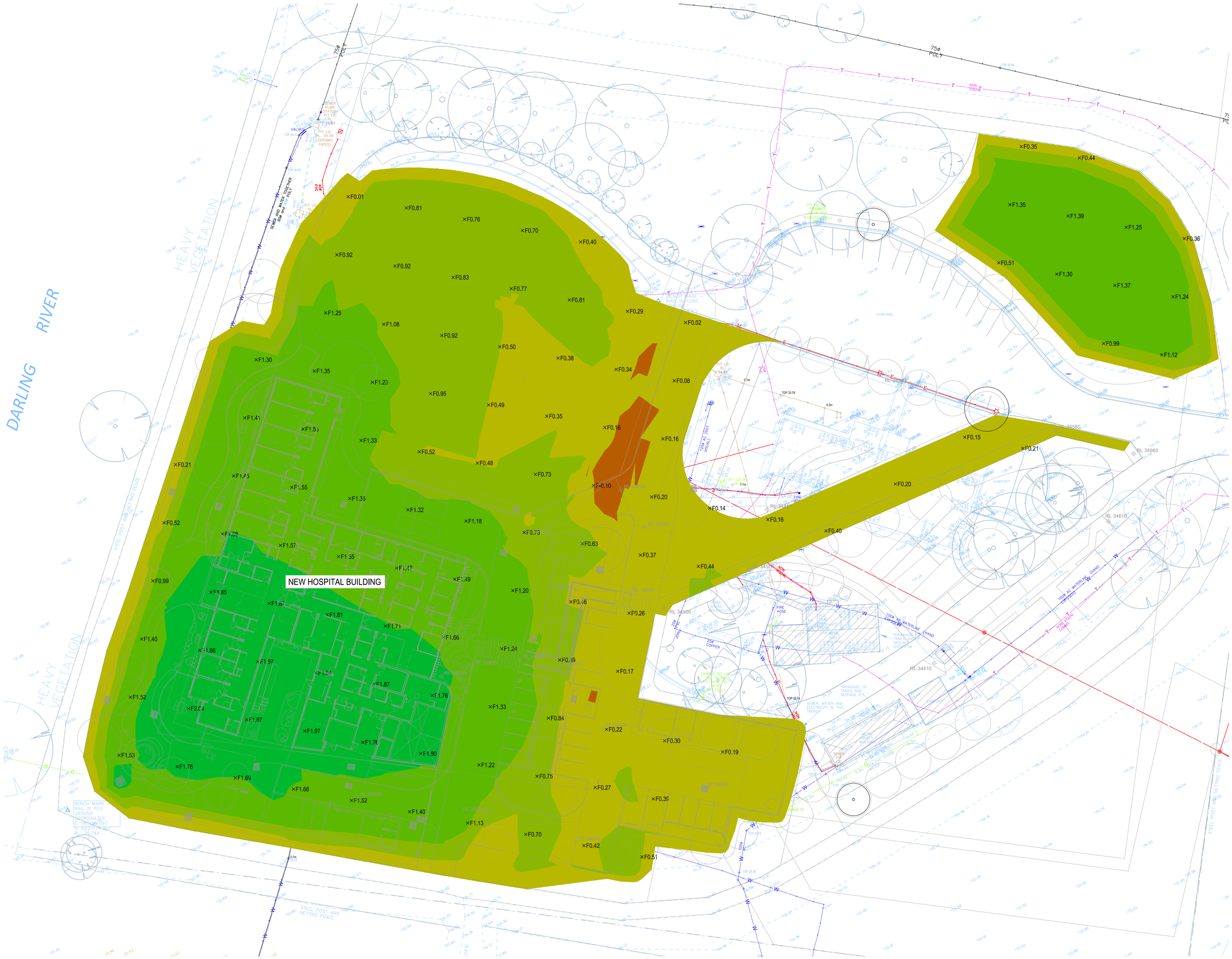
THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT NOTES ON DRAWING C002



SCALE 1:300 0 2.5 5 7.5 10 12.5 m
AT ORIGINAL SIZE

LEVELS TABLE

No.	FROM LEVEL (m)	TO LEVEL (m)	COLOUR
1	-0.70	-0.10	
2	-0.10	0.50	
3	0.50	1.10	
4	1.10	1.70	
5	1.70	2.30	

× F.XX DENOTES CUT / FILL DEPTH FROM NATURAL SURFACE TO DESIGN SURFACE

CUT AND FILL ESTIMATES

	STAGE 1A	STAGE 1B	STAGE 2
AREA OF WORKS	6,620 m²	3,790 m²	1,050 m²
CUT (UNCONTROLLED FILL)	2,130 m³	1,000 m³	210 m³
ACM (APPROX 150mm DEPTH OF TOPSOIL/FILL)	740 m³	230 m³	170 m³
FILL (TO BENCHING LEVEL)	8,310 m³	2,350 m³	120 m³

1. NO BULKING FACTOR APPLIED.
2. CUT AND FILL VOLUME ESTIMATES CALCULATED FROM THE FINISHED EARLY WORKS STRIPPED SURFACE (150mm BELOW NATURAL SURFACE) TO THE DESIGN BULK EARTHWORKS BENCHING SURFACE.
3. FOR RE-USE OF SITE WON MATERIAL, REFERENCE SHOULD BE MADE TO THE GEOTECHNICAL REPORT. THE CONTRACTOR IS TO MAKE ALLOWANCE FOR SORTING/TESTING AND HANDLING OF ANY FILL MATERIAL PROPOSED FOR RE-USE. ALL TESTING SHALL BE AT THE CONTRACTOR'S EXPENSE.
4. NO VOLUME ALLOWANCE OF BENCHING FOR STRUCTURAL FOOTINGS, SERVICE TRENCHES AND INGROUND SERVICES TANKS.

Rev	Description	Eng	Draft	Date
4	REF ISSUE	RP	AE	11.04.23
3	PRELIMINARY	RP	AE	19.12.22
2	ISSUED FOR SD	RP	AE	23.11.22
1	ISSUED FOR DRAFT SD	RP	AE	21.11.22

DIAL BEFORE YOU DIG www.1100.com.au

BEWARE OF UNDERGROUND SERVICES.
THE LOCATION OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN

Project
WENTWORTH HEALTH SERVICE REDEVELOPMENT
24 HOSPITAL ROAD, WENTWORTH, NSW, 2648

Drawing Title
CUT & FILL PLAN

Architect
NBRS
+61 2 9922 2344 nbrs.com.au
Nominated Architect:
Andrew Duffin NSW 5602
NBRS & Partners Pty Ltd VIC 51197 ABN 16 002 247 565

Civil Engineer
TTW Structural Civil Traffic Façade
+61 2 9439 7288 | L6 73 Miller Street North Sydney NSW 2065

Scale: A1 Drawn: AE Authorised: RP

Job No	Drawing No	Revision
221039	C410	4

Plot File Created: Apr 11, 2023 - 6:32pm

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

Appendix B Photo Log

PHOTOGRAPH 1: CARPARK ENTRANCE TO SITE, FACING WEST

PHOTOGRAPH 2: INFECTIOUS WASTE STORE, WATER TANK, CARPORT AND CONDEMNED NURSES HOME TO THE SOUTH OF SITE, FACING NORTHWEST

PHOTOGRAPH 3: MAINTENANCE SHEDS, WATER TANK AND EQUIPMENT/WASTE STORES, FACING SOUTHWEST. OFFSITE HISTORIC WATER TANK VISIBLE

PHOTOGRAPH 4: CARPORT AND MAINTENANCE STORES, FACING SOUTH

JBS&G

Job No: 63097	
Client: Health Infrastructure	
Version: R02 Rev A	Date: 24/08/2022
Drawn By: GP	Checked By: MB
Not to Scale	
Coord. Sys n/a	

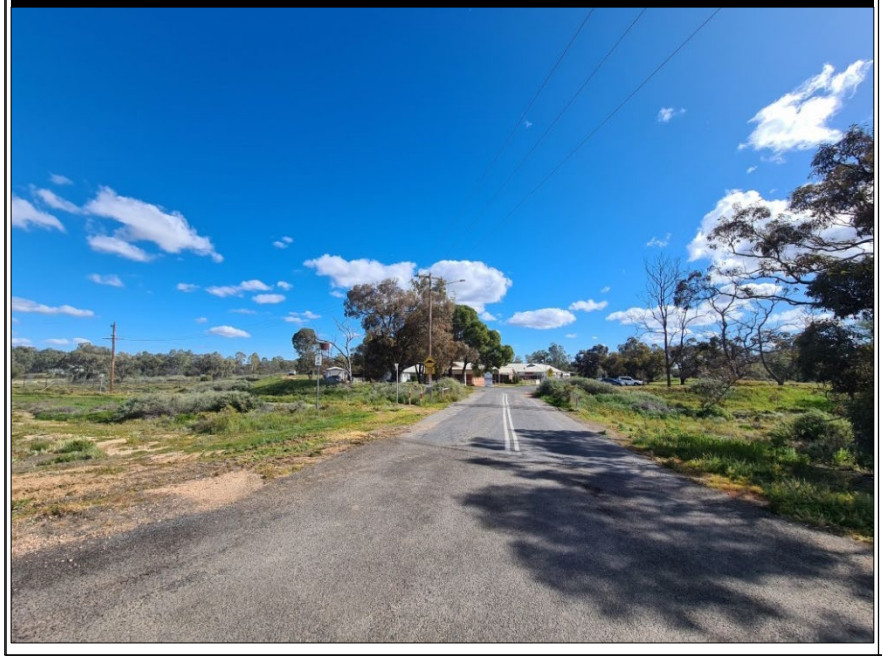
Wentworth Health Services
24 Hospital Road, Wentworth, NSW

APPENDIX A

PHOTOGRAPH 5: MAIN HOSPITAL BUILDING WITH LANDSCAPED FEATURES, FACING SOUTHWEST

PHOTOGRAPH 6: SEWER PUMP STATION AND SEPTIC TANK IN THE FOREGROUND AND MAIN HOSPITAL BEYOND, FACING SOUTHEAST, ATOP LEVEE

PHOTOGRAPH 7: HOSPITAL ROAD ENTRANCE INTO SITE, FACING WEST



PHOTOGRAPH 8: RAISED LEVEE/MAINTENANCE TRACK ENCIRCLING BUILDING COMPLEX, FACING SOUTH WEST

JBS&G

Job No: 63097	
Client: Health Infrastructure	
Version: R02 Rev A	Date: 24/08/2022
Drawn By: GP	Checked By: MB
Not to Scale	
Coord. Sys n/a	

Wentworth Health Services
24 Hospital Road, Wentworth, NSW

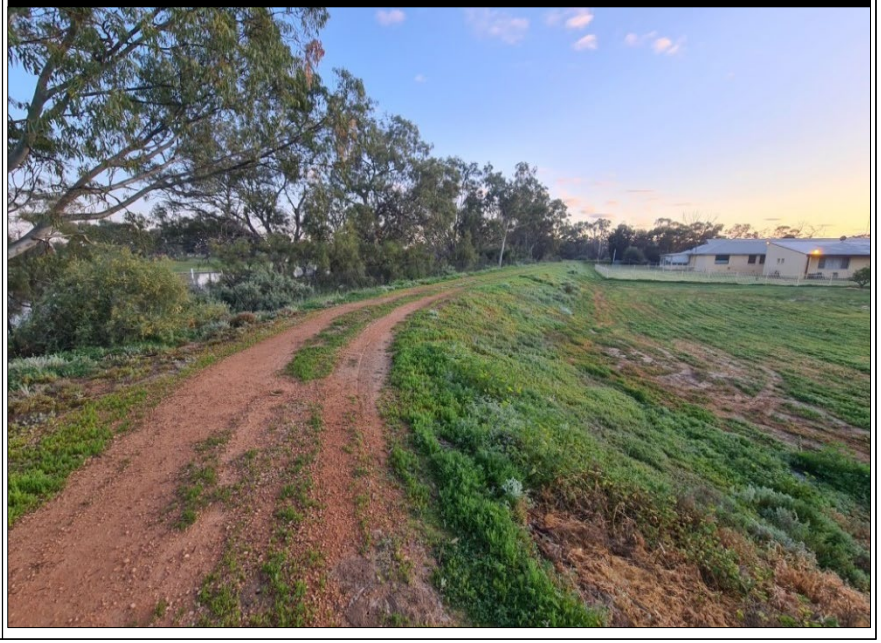
APPENDIX A

PHOTOGRAPH 9: SECONDARY MAINTENANCE TRACK LEADING INTO NORTHERN PORTION OF SITE, FACING NORTHWEST

PHOTOGRAPH 10: CONDEMNED OLD NURSES HOME, FACING SOUTH. FIBREBOARD OBSERVED TO BE IN A DEGRADED STATE.

PHOTOGRAPH 11: CLOSE UP OF FIBREBOARD PUMP SHED. FIBREBOARD OBSERVED TO BE IN A DEGRADED STATE.

PHOTOGRAPH 12: DARLING RIVER AND RIPARIAN ZONE TO THE LEFT OF LEVEE, RECREATIONAL AREAS TO THE RIGHT, FACING NORTH



JBS&G

Job No: 63097	
Client: Health Infrastructure	
Version: R02 Rev A	Date: 24/08/2022
Drawn By: GP	Checked By: MB
Not to Scale	
Coord. Sys n/a	

Wentworth Health Services
24 Hospital Road, Wentworth, NSW

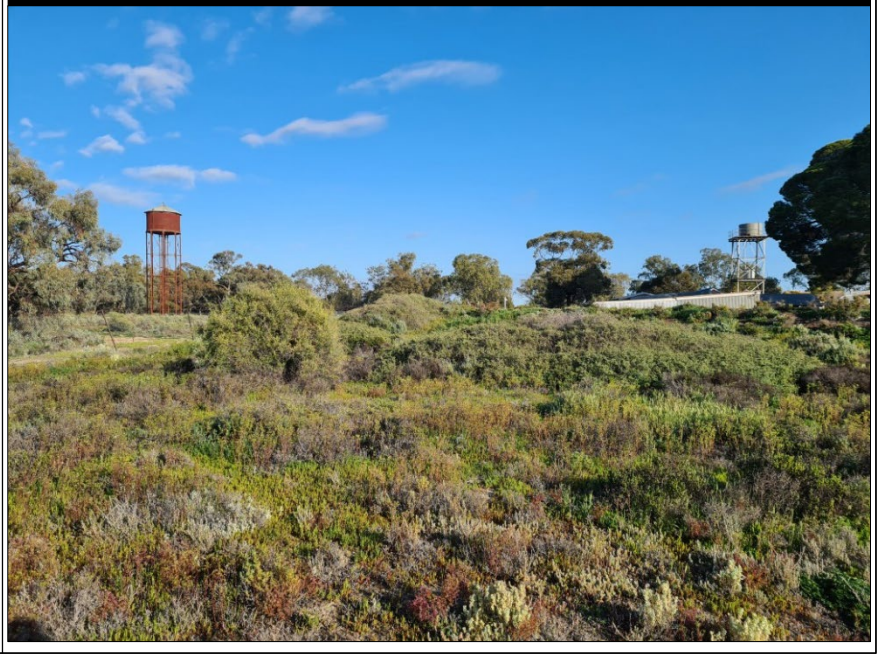
APPENDIX A

PHOTOGRAPH 13: SUSPECTED ACM STANDPIPE PAINTED WHITE, IN FRONT OF MAIN HOSPITAL, FACING SOUTHEAST

PHOTOGRAPH 14: UNDEVELOPED SCRUBLAND IN THE NORTHERN PORTION OF SITE, FACING NORTH

PHOTOGRAPH 15: GARDEN WASTE STOCKPILED WITHIN NORTHERN PORTION OF SITE

PHOTOGRAPH 16: UNDEVELOPED SCRUBLAND IN THE SOUTHEASTERN PORTION OF SITE, FACING WEST



JBS&G

Job No: 63097	
Client: Health Infrastructure	
Version: R02 Rev A	Date: 24/08/2022
Drawn By: GP	Checked By: MB
Not to Scale	
Coord. Sys n/a	

Wentworth Health Services
24 Hospital Road, Wentworth, NSW

APPENDIX A

PHOTOGRAPH 17: SURFICIAL BUILDING AND DEMOLITION WASTE OBSERVED WITHIN NORTHERN PORTION OF SITE

PHOTOGRAPH 18: SURFICIAL ACM OBSERVED WITHIN NORTHERN PORTION OF SITE

PHOTOGRAPH 19: SURFICIAL ACM OBSERVED WITHIN SOUTHEASTERN PORTION OF SITE

PHOTOGRAPH 20: LPG AST SOUTH OF SITE, FACING NORTH

JBS&G

Job No: 63097	
Client: Health Infrastructure	
Version: R02 Rev A	Date: 24/08/2022
Drawn By: GP	Checked By: MB
Not to Scale	
Coord. Sys n/a	

Wentworth Health Services
24 Hospital Road, Wentworth, NSW

APPENDIX A

PHOTOGRAPH 21: DIESEL-FUELLED EMERGENCY GENERATOR SHED

PHOTOGRAPH 22: MINOR UNDULATION IN GRASSES WITHIN THE SOUTHWESTERN PORTION OF SITE, FACING NORTHWEST

PHOTOGRAPH 23: SMALL VEGETATED STOCKPILE OF BUILDING AND DEMOLITION WASTE, INCLUDING ACM FRAGMENTS, ALONG SOUTHERN LEVEE

PHOTOGRAPH 24: CLOSE UP OF STOCKPILE

JBS&G

Job No: 63097	
Client: Health Infrastructure	
Version: R02 Rev A	Date: 24/08/2022
Drawn By: GP	Checked By: MB
Not to Scale	
Coord. Sys n/a	

Wentworth Health Services
24 Hospital Road, Wentworth, NSW

APPENDIX A

PHOTOGRAPH 25: ACM PIPE FRAGMENT ON GROUND SURFACE WITHIN SOUTHWESTERN PORTION OF SITE

PHOTOGRAPH 26: BROWN SILTY CLAY FILL OVERLYING NATURAL DARK BROWN CLAY

PHOTOGRAPH 27: RED TO BROWN SILTY CLAY FILL

PHOTOGRAPH 28: BROWN SILTY CLAY FILL OVERLYING NATURAL YELLOW/GREY SANDY CLAY

JBS&G

Job No: 63097	
Client: Health Infrastructure	
Version: R02 Rev A	Date: 24/08/2022
Drawn By: GP	Checked By: MB
Not to Scale	
Coord. Sys n/a	

Wentworth Health Services
24 Hospital Road, Wentworth, NSW

APPENDIX A

PHOTOGRAPH 29: NATURAL DARK BROWN CLAY

PHOTOGRAPH 30: NATURAL YELLOW/GREY SAND CLAY

PHOTOGRAPH 31: ANTHROPOGENICS WITHIN TEST PIT FILL

PHOTOGRAPH 32: ACM FRAGMENT ENCOUNTERED WITHIN TEST PIT FILL

JBS&G

Job No: 63097	
Client: Health Infrastructure	
Version: R02 Rev A	Date: 24/08/2022
Drawn By: GP	Checked By: MB
Not to Scale	
Coord. Sys n/a	

Wentworth Health Services
24 Hospital Road, Wentworth, NSW

APPENDIX A

PHOTOGRAPH 33: LAYER OF ASBESTOS AND ANTHROPOGENIC MATERIAL OBSERVED AT LOCATION TP32 AT 0.5 TO 0.7 M BGS

PHOTOGRAPH 34: ASBESTOS WITHIN AQ COMPLETED AT TP32-0.5-0.7

PHOTOGRAPH 35: MW03 IN THE FOREGROUND AND MW04 AS CIRCLED IN RED IN THE BACKGROUND, FACING WEST

PHOTOGRAPH 36: SLIGHTLY TURBID GROUNDWATER AS OBSERVED AT MW03

JBS&G

Job No: 63097	
Client: Health Infrastructure	
Version: R02 Rev A	Date: 24/08/2022
Drawn By: GP	Checked By: MB
Not to Scale	
Coord. Sys n/a	

Wentworth Health Services
24 Hospital Road, Wentworth, NSW

APPENDIX A

Appendix C WorkCover Dangerous Goods Search

27 July 2022

SafeWork NSW
Customer Service Centre – Operations
Locked Bag 2906
Lisarow NSW 2252

Dangerous Goods Search

Dear Sir / Madam,

Health Infrastructure NSW as the representative of the site owner, hereby authorises JBS&G Australia Pty Ltd (JBS&G) to undertake a 'Site Search for License to Keep Dangerous Goods' for the property located at 24 Hospital Rd, Wentworth NSW 2648. The property is legally identified as Lot 1 in DP 1136392.

This information is required by JBS&G as part of due diligence environmental assessment works at the property.

If you have any queries relating to the search or require further information, please contact the JBS&G representative Gina Pinget, on 02 8245 0300.

Kind Regards,

Gert Halbgebauer

Project Director | Rural & Regional | **Health Infrastructure**
Mobile 0475 415 775 | Gert.Halbgebauer@health.nsw.gov.au

1 Reserve Road, St Leonards, NSW 2065 | Locked Bag 2030, St Leonards NSW 1590

FILE No. 35/030672 VOL

N.S.W. GOVERNMENT DEPARTMENT OF INDUSTRIAL RELATIONS

DANGEROUS GOODS BRANCH

Wentworth Hospital

WCA - Unclassified Recfind File 35/030672

WorkCover Authority of NSW

Custodian Licensing Unit - OHS

Created 1/01/1975

Silver City Hwy Wentworth 2648

HEALTH & SAFETY MANAGEMENT - LICENSING - Dangerous Goods Keeping Licence 35/030672 - Wentworth, Silver City Hwy

GENERAL CORRESPONDENCE FILE

TITLE ..... 16 NEWCASTLE .....

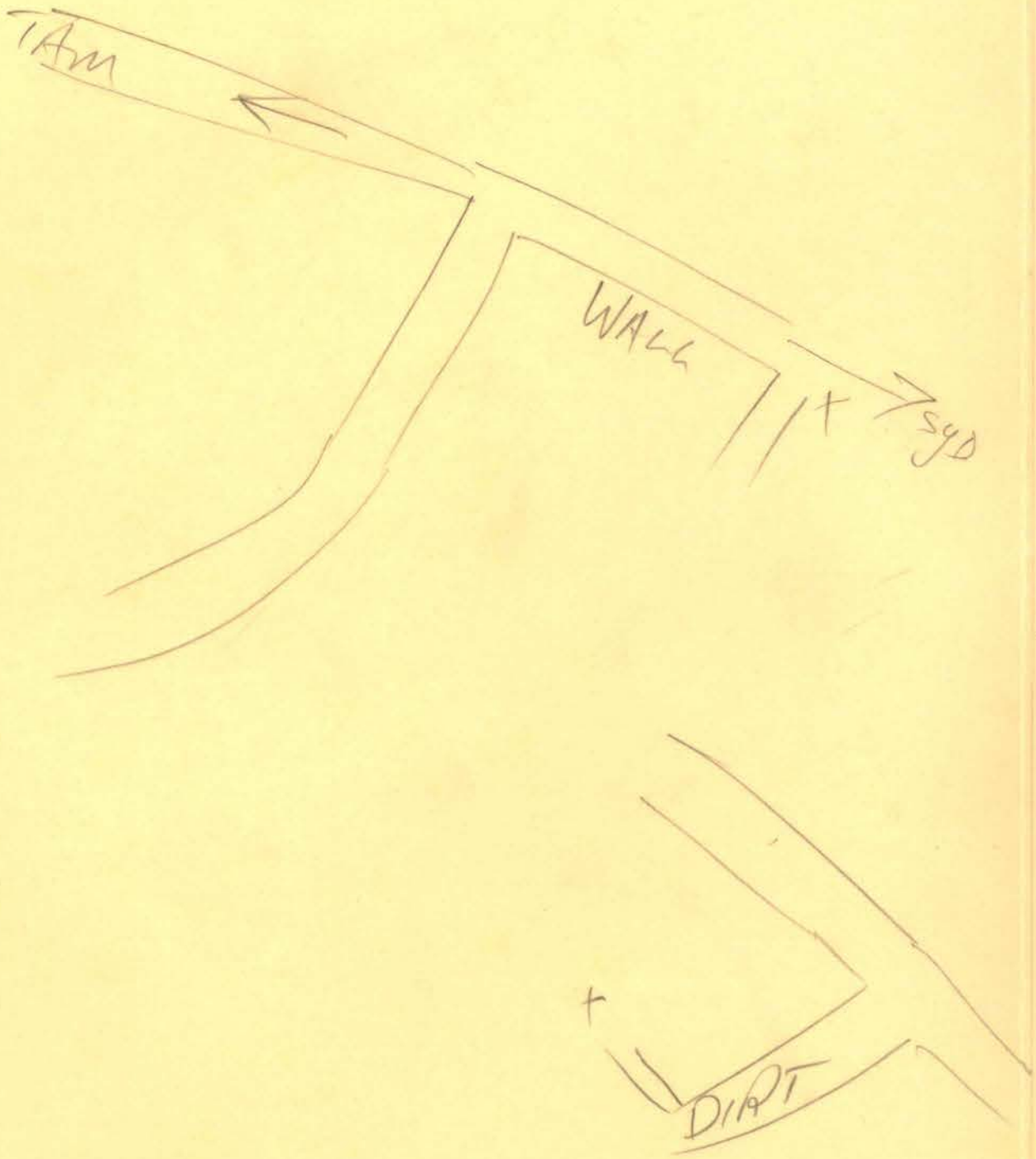
DISPOSAL DATE

FILE No. 35/030672 VOL

WORKCOVER AUTHORITY OF NSW
009344

DEPARTMENT OF
NEWCASTLE
24 JUL 1984
NO. ~~9230~~
INDUSTRIAL RELATIONS & TECHNOLOGY

11/3.
L
SIDG.



ME 35

INSPECTION RECORD

Licence No._____

I Have This Day RE-INSPECTED The Above Premises And Hereby Certify That The Depots Detailed On The Most Recent Licence Application (DG1) Dated ..... Agree With All Licensable Dangerous Goods Depots Located On The Premises.

..... Inspector of Dangerous Goods

..... Date

Inspected	Initials	Requisitions made or state of depot

ATF

WorkCover New South Wales, 400 Kent Street, Sydney 2000. Tel: 9370 5000 Fax: 9370 5999 ALL MAIL TO G.P.O. BOX 5364 SYDNEY 2001

Licence No. 35/030672

APPLICATION FOR RENEWAL

OF LICENCE TO KEEP DANGEROUS GOODS

ISSUED UNDER AND SUBJECT TO THE PROVISIONS OF THE DANGEROUS GOODS ACT, 1975 AND REGULATION THEREUNDER

WORKCOVER NEW SOUTH WALES

DECLARATION: Please renew licence number 35/030672 to 12/10/2002 . I confirm that all the licence details shown below are correct (amend if necessary).

K. K. Behsmann ..... K. K. BEHSMANN ..... 30.8.01 .....

(Signature) *(Please print name)* *(Date signed)*

for: FAR WEST AREA HEALTH SERVICES

*THIS **SIGNED** DECLARATION SHOULD BE **RETURNED TO:** **(please do not fax)***

WorkCover New South Wales
Dangerous Goods Licensing Section
GPO BOX 5364
SYDNEY 2001

Enquiries: ph (02) 9370 5187
fax (02) 9370 6104

RECEIVED
SERVICE CENTRE
5 SEP 2001
WORKCOVER
NEW SOUTH WALES

Details of licence on 22 August 2001

Licence Number 35/030672 **Expiry Date** 12/10/2001

Licensee FAR WEST AREA HEALTH SERVICES
WENTWORTH HOSPITAL

Postal Address: WENTWORTH HOSPITAL BOX 38 P O WENTWORTH NSW 2648

Licensee Contact MRS WIN SWANTON Ph. 050 272345 Fax.

Premises Licensed to Keep Dangerous Goods
FAR WEST AREA HEALTH SERVICES WENTWORTH HOSPITAL
SILVER CITY HWY WENTWORTH 2648

Nature of Site HOSPITALS (EXCEPT PSYCHIATRIC HOSPITALS)

Major Supplier of Dangerous Goods BORAL

Emergency Contact for this Site TREVOR MCLEOD Ph. 050 272345

Site staffing 24 HRS 7 DAYS

Details of Depots

Depot No.	Depot Type	Goods Stored in Depot	Qty
1	**ABOVE-GROUND TANK**	**Class 2.1**	**4300 L**
	UN 1978 PROPANE		3500 L

Form DG10

RECEIVED
SERVICE CENTRE
5 SEP 2001
WOLLONGOVER
NEW SOUTH WALES

Licence Number 35/030672

CLOSED FILE
2006

Occupier: FAR WEST AREA HEALTH SERVICES
WENTWORTH HOSPITAL

Site:

SILVER CITY HWY,
WENTWORTH 2648

WorkCover. **Watching out for you.**

WorkCover NSW ABN 77 682 742 966 92-100 Donnison Street Gosford NSW 2250 Locked Bag 2906 Lisarow NSW 2252
Telephone 02 4321 5000 Facsimile 02 4325 4145 WorkCover Assistance Service **13 10 50**
DX 731 Sydney Website **www.workcover.nsw.gov.au**

WC1216LH

WorkCover NEW SOUTH WALES
35/030672
Dangerous Goods Notification Team
ph. (02) 4321 5500 fax (02) 9287 5500

RECEIVED
SERVICE CENTRE
18 JAN 2006
WORKCOVER
NEW SOUTH WALES

Attn: MS JUDY LAMB
FAR WEST AREA HEALTH SERVICES
WENTWORTH HOSPITAL
P O BOX 38
WENTWORTH NSW 2648

13 December 2005

Dear Sir / Madam

RE: Notification of Dangerous Goods on Premises 35/030672
PREMISES: SILVER CITY HWY, WENTWORTH 2648

The new regulatory regime for Dangerous Goods commenced on the 1 September 2005 and is set out in the *Occupational Health and Safety Act 2000* and the *Occupational Health and Safety Regulation 2001.*

Occupiers of premises on which Dangerous Goods are stored or handled must notify WorkCover of the Dangerous Goods on those premises . Please note that it is an offence under clause 174ZS, of the Occupational Health and Safety Regulation 2001 not to comply with these requirements. The penalty for doing so is up to a maximum of $27,500.

The threshold quantities relating to notification have been changed and are published in the attached Guide to Notification of Dangerous Goods on Premises (Publication Number Guide GDG01 is also available from WorkCover website www.workcover.nsw.gov.au).

If after reading this guidance material you determine that you do not store or handle notifiable amounts of dangerous goods, please sign the declaration attached and return along with your licence.

If you do store or handle Dangerous Goods in notifiable quantities please complete the attached application form FDG01. If you **only** store or handle Class 1 Dangerous Goods or Security Sensitive Dangerous Substances (e.g. Ammonium Nitrate), please contact the Hazardous Activities Licensing Team on (02) 4321 5499 for further information.

Where the site has been sold or the lease ended, please inform WorkCover New South Wales, of the date you sold/vacated the premises and whether you removed the Dangerous Goods before leaving. Where possible, please supply the new owners/occupiers name and address.

For further information refer to the WorkCover website www.workcover.nsw.gov.au or if you require any further information please contact WorkCover on 13 10 50.

Yours faithfully

John Cairns
A/Coordinator Licence Processing
Licensing Team

WorkCover. **Watching out for you.**

WorkCover NEW SOUTH WALES

DECLARATION

To be completed where notifiable amounts of Dangerous Goods are not stored.

I ....Judy Lamb.....(name), of ....Silver City Hwy - Wentwrath.....(address)
declare that I do not store and handle Dangerous Goods at premises 35/030672,
site SILVER CITY HWY, WENTWORTH 2648
in quantities that exceed or are likely to exceed the manifest quantity in the Table to Schedule 5 of the Occupational Health and Safety Regulation 2001.

.....Signature

.....4.1.06.....Date

This declaration is to be returned with your licence to :

WorkCover New South Wales
Dangerous Goods Notification Team
LOCKED BAG 2906, LISAROW NSW 2252

WorkCover NEW SOUTH WALES

Dangerous Goods Licensing
ph (02) 4321 5500 fax (02) 9287 5500

RECEIVED
08 SEP 2004

Attn: MS JUDY LAMB
Licensee: **FAR WEST AREA HEALTH SERVICES**
WENTWORTH HOSPITAL
P O BOX 38
WENTWORTH NSW 2648

LICENCE FOR THE KEEPING OF DANGEROUS GOODS

ISSUED UNDER AND SUBJECT TO THE PROVISIONS OF THE DANGEROUS GOODS ACT, 1975 AND REGULATIONS THEREUNDER

Licence Number 35/030672 **Expiry Date** 11/10/2005 **No. of Depots** 1

Licensee Contact MS JUDY LAMB Ph. 050 272345 Fax.

Premises Licensed to Keep Dangerous Goods
FAR WEST AREA HEALTH SERVICES WENTWORTH HOSPITAL
SILVER CITY HWY WENTWORTH 2648

Nature of Site HOSPITALS (EXCEPT PSYCHIATRIC HOSPITALS)

Major Supplier of Dangerous Goods BORAL

Emergency Contact for this Site TREVOR MCLEOD Ph. 050 272345

Site staffing 24 HRS 7 DAYS

Details of Depots

Depot No.	Depot Type	Goods Stored in Depot	Qty
1	**ABOVE-GROUND TANK**	**Class 2.1**	**4300 L**
	UN 1978 PROPANE		3500 L

PLEASE RETAIN AS PROOF OF LICENCE
Issued by Workcover Authority of New South Wales on 6 September 2004

WorkCover. **Watching out for you.**

RECEIVED
SERVICE CENTRE
20 SEP 2002
WORKCOVER
NEW SOUTH WALES

WorkCover New South Wales, 400 Kent Street, Sydney 2000. Tel: 9370 5000 Fax: 9370 5999 ALL MAIL TO GPO BOX 5364 SYDNEY 2001

35/030672

OHS LICENSING UNIT
Dangerous Goods Licensing
ph. (02) 9370 5187 fax (02) 9370 6104
e-mail: scid@workcover.nsw.gov.au

WORKCOVER
NEW SOUTH WALES

Attn: MRS WIN SWANTON
FAR WEST AREA HEALTH SERVICES
WENTWORTH HOSPITAL
BOX 38 P O
WENTWORTH NSW 2648

26 August 2002

Dear Licensee

RE: RENEWAL OF LICENCE FOR THE KEEPING OF DANGEROUS GOODS
PREMISES: SILVER CITY HWY, WENTWORTH 2648

Our records indicate you hold licence no. 35/030672 for storage of dangerous goods at SILVER CITY HWY, WENTWORTH 2648 . This licence will expire on 12/10/2002 . If you still keep licensable quantities of dangerous goods at this site, the licence will need to be renewed. You should be aware that it is an offence under Part 3, Division 1 of the Dangerous Goods Act 1975 to keep dangerous goods on unlicensed premises.

To renew the licence to 12/10/2003 , please **sign, date and return** the enclosed declaration. If there are significant modifications to the depot details or extra depots need to be added to your licence please contact WorkCover New South Wales to obtain an application form DG1.

If the licence is not to be renewed, please provide WorkCover's OHS Licensing Unit with a signed statement giving the reason why the licence is no longer required *eg site sold, lease ended or storage removed.*

- Where the site has been sold or the lease ended, please inform WorkCover New South Wales, of the date you sold/vacated the premises and whether you removed the dangerous goods before leaving. Where possible, please supply the new owner's name and address.

- If the depot(s) has been removed from the site or is no longer used for storing dangerous goods, please advise the date the goods/depot(s) were removed and by whom. *See specific information in guidance notes attached/overleaf for underground tanks.*

If you have any further queries, please contact your local WorkCover office or Dangerous Goods Licensing staff ☎ (02) 9370 5187. Thank you for your assistance.

Yours faithfully

Kham Sirimanotham

Team Leader, Dangerous Goods
encs

REC'D
9 SEP 2002

WorkCover New South Wales, 400 Kent Street, Sydney 2000. Tel: 9370 5000 Fax: 9370 5999 ALL MAIL TO G.P.O. BOX 5364 SYDNEY 2001

Licence No. 35/030672

APPLICATION FOR RENEWAL

OF LICENCE TO KEEP DANGEROUS GOODS

ISSUED UNDER AND SUBJECT TO THE PROVISIONS OF THE DANGEROUS GOODS ACT, 1975 AND REGULATION THEREUNDER

WORKCOVER NEW SOUTH WALES

DECLARATION: Please renew licence number 35/030672 to 12/10/2003 . I confirm that all the licence details shown below are correct (amend if necessary).

.....	Judy Lamb	16/9/02
(Signature)	*(Please print name)*	*(Date signed)*

for: FAR WEST AREA HEALTH SERVICES

*THIS **SIGNED** DECLARATION SHOULD BE **RETURNED TO: (please do not fax)***

WorkCover New South Wales
Dangerous Goods Licensing Section
GPO BOX 5364
SYDNEY 2001

Enquiries: ph (02) 9370 5187
fax (02) 9370 6104

Details of licence on 26 August 2002

Licence Number 35/030672 **Expiry Date** 12/10/2002

Licensee FAR WEST AREA HEALTH SERVICES
WENTWORTH HOSPITAL

Postal Address: WENTWORTH HOSPITAL BOX 38 P O WENTWORTH NSW 2648

Licensee Contact ~~MRS WIN SWANTON~~ Ms Judy Lamb Ph. 050 272345 Fax.

Premises Licensed to Keep Dangerous Goods
FAR WEST AREA HEALTH SERVICES WENTWORTH HOSPITAL
SILVER CITY HWY WENTWORTH 2648

Nature of Site HOSPITALS (EXCEPT PSYCHIATRIC HOSPITALS)

Major Supplier of Dangerous Goods BORAL

Emergency Contact for this Site TREVOR MCLEOD Ph. 050 272345

Site staffing 24 HRS 7 DAYS

Details of Depots

Depot No.	Depot Type	Goods Stored in Depot	Qty
1	**ABOVE-GROUND TANK**	**Class 2.1**	**4300 L**
	UN 1978 PROPANE		3500 L

BOX 713

WorkCover New South Wales, 400 Kent Street, Sydney 2000. Tel: 9370 5000 Fax: 9370 5999 ALL MAIL TO G.P.O. BOX 5364 SYDNEY 2001

WORKCOVER NEW SOUTH WALES

Licence No. 35/030672

APPLICATION FOR RENEWAL

OF LICENCE TO KEEP DANGEROUS GOODS

ISSUED UNDER AND SUBJECT TO THE PROVISIONS OF THE DANGEROUS GOODS ACT, 1975 AND REGULATION THEREUNDER

DECLARATION: Please renew licence number 35/030672 to 12/10/2001 . I confirm that all the licence details shown below are correct (amend if necessary).

(Signature)	WIN SWANTON (Please print name)	12-09-00 (Date signed)

for: FAR WEST AREA HEALTH SERVICES

*THIS **SIGNED** DECLARATION SHOULD BE **RETURNED TO: (please do not fax)***

WorkCover New South Wales
Dangerous Goods Licensing Section
GPO BOX 5364
SYDNEY 2001

Enquiries: ph (02) 9370 5187
fax (02) 9370 6104

Details of licence on 1 September 2000

RECEIVED SERVICE CENTRE 15 SEP 2000 WORKCOVER

Licence Number 35/030672 **Expiry Date** 12/10/2000

Licensee FAR WEST AREA HEALTH SERVICES
WENTWORTH HOSPITAL

Postal Address: WENTWORTH HOSPITAL BOX 38 P O WENTWORTH NSW 2648

Licensee Contact MRS WIN SWANTON Ph. 050 272345 Fax.

DATA 22 SEP 2000 ENTERED

Premises Licensed to Keep Dangerous Goods
FAR WEST AREA HEALTH SERVICES WENTWORTH HOSPITAL
SILVER CITY HWY WENTWORTH 2648

Nature of Site HOSPITALS (EXCEPT PSYCHIATRIC HOSPITALS)

Major Supplier of Dangerous Goods BORAL

Emergency Contact for this Site TREVOR MCLEOD Ph. 050 272345

Site staffing 24 HRS 7 DAYS

Details of Depots

Depot No.	Depot Type	Goods Stored in Depot	Qty
1	ABOVE-GROUND TANK	Class 2.1	4300 L
	UN 1978 PROPANE		3500 L

Form DG10

WorkCover New South Wales, 400 Kent Street, Sydney 2000. Telephone (02) 9370 5000 ALL MAIL TO LOCKED BAG 10, CLARENCE STREET SYDNEY 2000

Reference

WORKCOVER NEW SOUTH WALES

APPLICATION FOR RENEWAL

OF LICENCE TO KEEP DANGEROUS GOODS

ISSUED UNDER AND SUBJECT TO THE PROVISIONS OF THE DANGEROUS GOODS ACT, 1975 AND REGULATION THEREUNDER

DECLARATION: *Please renew licence number 35/030672 to 1997. I confirm that all the licence details shown below are correct (amend if necessary).*

W Swanton ..... W. J. SWANTON 29-10-96

(Signature) *(Please print name)* *(Date signed)*

for: ~~MURRAY HEALTH SERVICE~~ FAR WEST AREA HEALTH SERVICE

*THIS **SIGNED** DECLARATION SHOULD BE **RETURNED TO:***

WorkCover New South Wales
Dangerous Goods Licensing Section (Level 3)
Locked Bag 10
P O CLARENCE STREET 2000

Details of licence on 30 August 1996

Licence Number 35/030672 **Expiry Date** 13/10/96

Licensee ~~MURRAY HEALTH SERVICE~~ FAR WEST AREA HEALTH SERVICE.
WENTWORTH HOSPITAL

Postal Address BOX 38 P O, WENTWORTH 2648

Licensee Contact Mrs Win Swanton Ph. 050 272345

Premises Licensed to Keep Dangerous Goods
SILVER CITY HWY
WENTWORTH 2648

RECEIVED MAIL ROOM - 4 NOV 1996 WORKCOVER NEW SOUTH WALES

Nature of Site Hospitals **Major Supplier of Dangerous Goods** BORAL

Emergency Contact for this Site Trevor McLeod ph. 050 272345

Site staffing 24 hrs 7 days

Details of Depots

Depot No.	Depot Type	Goods Stored in Depot	Qty
1	ABOVE-GROUND TANK	Class 2.1	4300 L
		UN 1978 PROPANE or PROPANE MIX	3500 L

DATA 13 NOV 1996 ENTERED 13/11

RECEIVED - 4 NOV SCIENTIFIC SERVICES BRANCH

Licences are issued, for a specified site, if control of a site is transferred (by way of sale or lease or otherwise), the person who held the licence concerned immediately before the transfer must, within 7 days after the transfer, notify the Chief Inspector. This notification must be in writing and must specify the date on which the transfer was effected and the name and address of the transferee.

Dangerous Goods are divided into classes and an explanation is shown below. Certain dangerous goods may be kept without a licence, providing the quantity of the goods does not exceed the amount specified in the exemptions listed below.

EXPLANATION OF DANGEROUS GOODS AND THEIR CLASSES

1.1 Blasting explosives (including detonators).
1.4 Safety cartridges
2.1 Flammable gases (e.g. L.P.Gas, acetylene).
2.2 Non flammable, non toxic gases (e.g. liquid oxygen, liquid nitrogen).
2.3 Poisonous Gases (e.g. chlorine, anhydrous ammonia)
3 Flammable liquids (e.g. any or all of petrol, kerosene, solvents, methylated spirits).
C1 Combustible liquids (e.g. distillate, diesel fuel, heating oil).
4 Flammable solids (e.g. nitro cellulose, sodium metal, calcium carbide).
5.1 Oxidising substances (e.g. pool chlorine, ammonium nitrate).
5.2 Organic peroxides (e.g. dibenzoyl peroxide)
6.1 (a) Poisons (e.g. sodium cyanide, some pesticides);
(b) Harmful substances (e.g. sodium fluorosilicate, some pesticides).
6.2 Infectious substances
7 Radioactive substances (storage of Class 7 is NOT covered by the Dangerous Goods Act, 1975).
8 Corrosives (e.g. hydrochloric acid, sulphuric acid, sodium hydroxide, sodium hypochlorite).

EXEMPTIONS FROM LICENCE

1. *Acetylene*: Storage of 60 cu.m or less of acetylene per premises (i.e. up to and including 8 x "G" class cylinders, the most common size of acetylene cylinder).
2. *Class C1-Distillate, Diesel Fuel, Heating Oil*: Storage of 50,000 litres or less per tank.
3. *Petrol and other class 3 packaging group I & II dangerous goods* : Storage of 100 litres or less per premises.
4. *Kerosene and other class 3 packaging group III dangerous goods* : Storage of 1,000 litres or less per premises when stored aboveground.
5. *Class 6 - Poisonous Substances* : Packaging group I not more than 10L/kg, packaging group II not more than 100L/kg, packaging group III not more than 1000L/kg,
6. *Class 8 - Corrosive Substances* : Packaging group I not more than 50L/kg, packaging group II not more than 500L/kg, packaging group III not more than 1000L/kg,

Please contact the WorkCover Authority ☎ (02) 370 5187 for further exemptions.

OTHER WORKCOVER AUTHORITY OFFICES - Advice on Dangerous Goods* can also be obtained from the following offices.

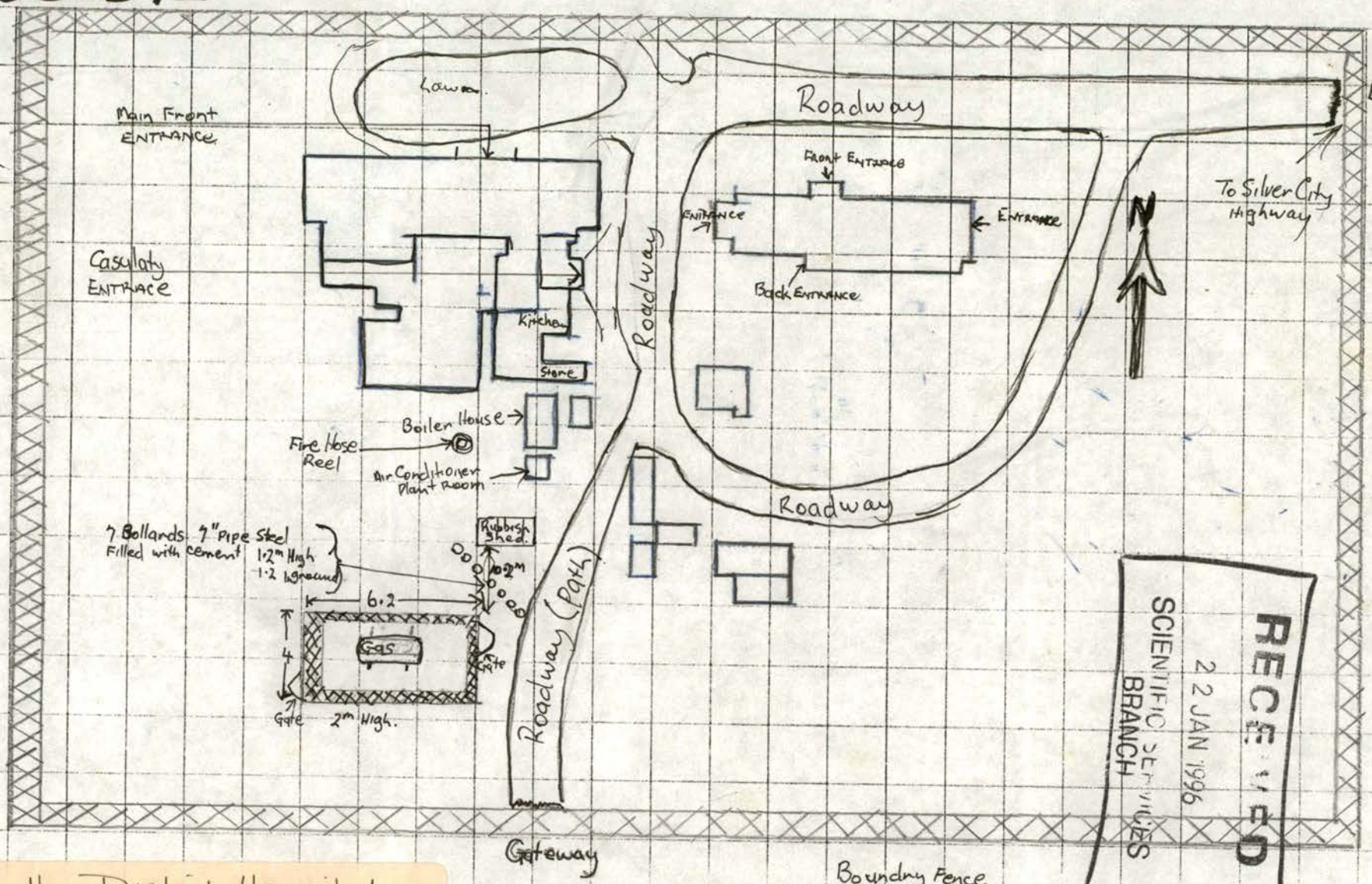
	☎		☎
GOSFORD	(043) 24 3384		
NEWCASTLE	(049) 21 2900	HURSTVILLE	(02) 598 3366
ORANGE	(063) 61 7070	LINDFIELD	(02) 936 3000
PORT MACQUARIE	(065) 84 1188	LIVERPOOL	(02) 827 8600
WAGGA WAGGA	(069) 21 8766	PARRAMATTA	(02) 841 8550
WOLLONGONG	(042) 22 7333		

*** Dangerous Goods licensing enquiries to Scientific Services Branch ☎ (02) 370 5187**

35/030672

35/030672

Site Sketch Please carefully read the instructions on page 3 of the guide before sketching the site



RECEIVED
22 JAN 1996
SCIENTIFIC SERVICES BRANCH

PART B

Wentworth District Hospital and Health service

Site sketch for licence for the keeping of dangerous goods Jan 1996

32/0308/5

Telephone (050) 27 3201
(050) 27 3301
Fax (050) 27 3099

Penny's Reading Tray.

P.O. BOX 38.

WENTWORTH DISTRICT HOSPITAL & HEALTH SERVICE

PB/ad

File No.: .....

WENTWORTH, N.S.W., 2648

RECEIVED
MAIL ROOM
22 JAN 1996
WORKCOVER
NEW SOUTH WALES

16 January 1996

Ms.L.Sarkissian
Licensing Clerk, Dangerous Goods
Scientific Services Branch,
Workcover NSW,
Locked Bag 10,
Clarence Street,
SYDNEY. 2000

RECEIVED
22 JAN 1996
SCIENTIFIC SERVICES
BRANCH

Dear Ms.Sarkissian,

Re: **Licence for the keeping of Dangerous Goods 35/030672**

As requested in your letter 6th December, 1995 we now attached A4 size site sketch of this site for your records.

I trust that this meets all the requirements and will enable this hospital to obtain a full licence.

DATA
25 JAN 1996
ENTERED

Thank you,

Yours faithfully,

P. Beard.

P.BEARD,
Acting Health Service Manager.

WENTWORTH DISTRICT HOSPITAL & HEALTH SERVICE

35-030672

1/8/96

P.O. BOX 38
WENTWORTH. NSW 2648

PH. 050 272345 FAX.050 273099

TO Ms - L. SARKISSIAN.
DANGEROUS GOOD LICENSING - WORKCOVER.

FROM P. BEARD - A/HSM

DATE 16.01.96

NUMBER OF PAGES 3
(including cover sheet)

RECEIVED
16 JAN 1996
SCIENTIFIC SERVICES BRANCH

MESSAGE RE SKETCH - SITE PLAN.

LETTER FOLLOWING BY MAIL.

Telephone (050) 27 3201
(050) 27 3301
Fax (050) 27 3099

P.O. BOX 38.

WENTWORTH DISTRICT HOSPITAL & HEALTH SERVICE

PB/ad
File No.: .....

WENTWORTH, N.S.W., 2648

16 January 1996

Ms.L.Sarkissian
Licensing Clerk, Dangerous Goods
Scientific Services Branch,
Workcover NSW,
Locked Bag 10,
Clarence Street,
SYDNEY. 2000

Dear Ms.Sarkissian,

Re: **Licence for the keeping of Dangerous Goods 35/030672**

As requested in your letter 6th December, 1995 we now attached A4 size site sketch of this site for your records.

I trust that this meets all the requirements and will enable this hospital to obtain a full licence.

Thank you,

Yours faithfully,

P. Beard.

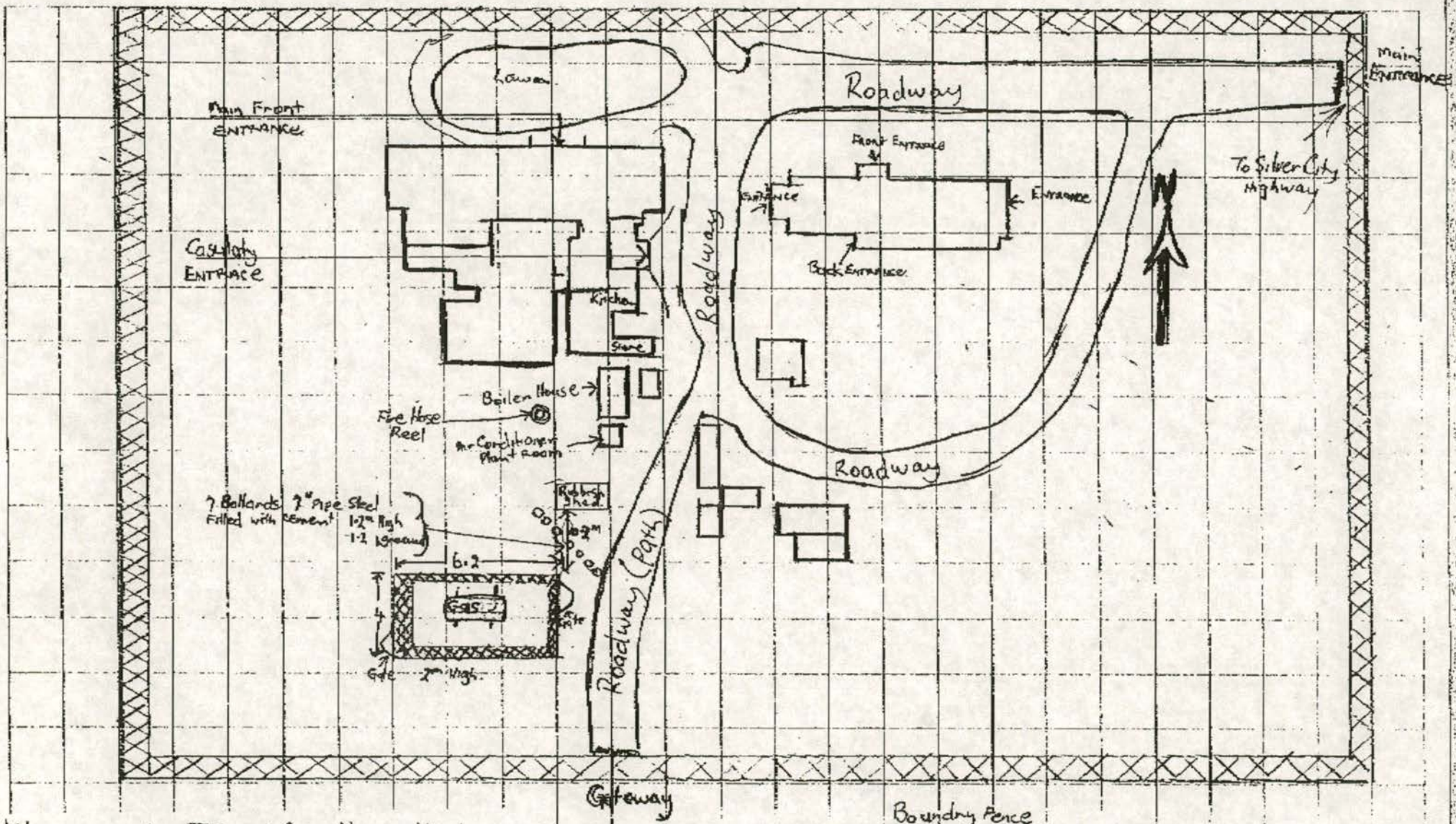
P.BEARD,
Acting Health Service Manager.

35/030672

COPY

PART B

Site Sketch Please carefully read the instructions on page 3 of the guide before sketching the site



Boundry Fence
East Side 211 m
North side 153 m
West Side 208 m
South Side 197 m
769 m

Wentworth District Hospital and Health service

Site sketch for licence for the keeping of dangerous goods

Jan 1996

WorkCover New South Wales, 400 Kent Street, Sydney 2000. Telephone 370 5000 ALL MAIL TO LOCKED BAG 10, CLARENCE STREET SYDNEY 2000

WORKCOVER
NEW SOUTH WALES

Reference

35/030672

SCIENTIFIC SERVICES BRANCH
Dangerous Goods Licensing
ph. (02) 370 5187 fax (02) 370 6105

Attn: Mrs Win Swanton
MURRAY HEALTH SERVICE
WENTWORTH HOSPITAL
BOX 38 P O
WENTWORTH 2648

6 December 1995

Dear Licensee

RE: LICENCE FOR THE KEEPING OF DANGEROUS GOODS 35/030672

Enclosed is your dangerous goods licence for your site at Silver City Hwy, Wentworth.

We have issued a conditional licence to cover the premises. To fully license this site we require an ***A4 size site sketch.***

Please forward this sketch to WorkCover by 19 January 1996.

If you need further information, please contact your local WorkCover Office or dangerous goods licensing staff.

Thank you for your assistance to this matter.

Yours faithfully

Lucy SARKISSIAN
Licensing Clerk, Dangerous Goods
encs.

** CONDITIONAL LICENCE **

WorkCover New South Wales, 400 Kent Street, Sydney 2000. Telephone 370 5000 ALL MAIL TO LOCKED BAG 10, CLARENCE STREET SYDNEY 2000

Reference

SCIENTIFIC SERVICES BRANCH
Dangerous Goods Licensing
ph. (02) 370 5187 fax (02) 370 6105

WORKCOVER
NEW SOUTH WALES

Licensee MURRAY HEALTH SERVICE
WENTWORTH HOSPITAL
BOX 38 P O
WENTWORTH 2648

LICENCE FOR THE KEEPING OF DANGEROUS GOODS

ISSUED UNDER AND SUBJECT TO THE PROVISIONS OF THE DANGEROUS GOODS ACT, 1975 AND REGULATION THEREUNDER

Licence Number 35/030672 **Expiry Date** 13/10/96 **No. of Depots** 1

Licensee Contact Mrs Win Swanton Ph. 050 272345

Premises Licensed to Keep Dangerous Goods
SILVER CITY HWY
WENTWORTH 2648

Nature of Site Hospitals

Emergency Contact for this Site Trevor McLeod 050 272345 24 hrs 7 days

Major Supplier of Dangerous Goods BORAL

DETAILS OF DEPOTS

Depot No.	Depot Type	Goods Stored in Depot	Qty
1	ABOVE-GROUND TANK	Class 2.1	4300 L
		UN 1978 PROPANE or PROPANE MIX	3500 L

***** Licence has been issued on condition that an A4 size site sketch is submitted to WorkCover by 19 January 1996.*****

PLEASE RETAIN AS PROOF OF LICENCE

Issued by Chief Inspector of Dangerous Goods on 6 December 1995

THE NEW SOUTH WALES GOVERNMENT
Putting people first by managing better

PART A

WORKCOVER

LICENCE TO KE

STATUS: Conditional
COMMENTS: New app d/e & licence issued on condition site sketch ~~with additional information~~ submitted by 19 January 1996 RS LC 1/6/96

Application for new licence, amendment or transfer

Expiry: 13.10.96

1. Name of applicant: MURRAY HEALTH SERVICE — ACN:

2. Site to be licensed — Sketch.
No: — Street: SILVER CITY HIGHWAY
Suburb/Town: WENTWORTH — Postcode: 2648

3. Previous licence number (if known): 35030672

4. Nature of site: HOSPITAL ~~*SCH~~

5. Emergency contact on site:
Phone: 050 272345 — Name: TREVOR McLEOD.

6. Site staffing: Hours per day: 24 — Days per week: 7

7. Major supplier of dangerous goods: ~~SPEED-E GAS~~ Boral

8. If new site or significant modification
Plan stamped by: Accredited consultant's name: Veerhuis Roy — Date stamped: 26-9-95

DATA ENTE 05 DEC 1995

9. Number of dangerous goods depots at site: 1

10. Trading name or occupier's name: WENTWORTH HOSPITAL

11. Postal address of applicant: PO BOX 38 — Suburb/Town: WENTWORTH — Postcode: 2648

12. Contact for licence enquiries:
Phone: 050 272345 — Fax: 050 — Name: MRS WIN SWANTON

I certify that the details contained in this application (or the accompanying computer disk) are true and correct

13. Signature of applicant: [signature] — Date: 23/8/95

Please complete attached site sketch, depot listing and check sheet (if required) and return to WorkCover Authority in envelope provided.

29 JAN 1996

Form DG1

THE NEW SOUTH WALES GOVERNMENT
Putting people first by managing better

PART A

WORKCOVER AUTHORITY

LICENCE TO KEEP DANGEROUS GOODS

(Dangerous Goo

Payment Method:

☐ Cheque payable to Standards Australia

☐ Please invoice (Standards Australia members only)

Membership no. _____

Order no. _____

Application for new licence, amendment or transfer

Expiry: 13.10.96

1. Name of applicant: MURRAY HEALTH SERVICE — ACN:

2. Site to be licensed — Sketch.
   No: | Street: SILVER CITY HIGHWAY
   Suburb/Town: WENTWORTH | Postcode: 2648

3. Previous licence number (if known): 35030672

4. Nature of site: HOSPITAL ~~*SCH~~

5. Emergency contact on site:
   Phone: 050 272345 | Name: TREVOR McLEOD.

6. Site staffing: Hours per day: 24 | Days per week: 7

7. Major supplier of dangerous goods: ~~SPEED-E GAS~~ Boral

8. If new site or significant modification
   Plan stamped by: Accredited consultant's name: Veerhuis Roy | Date stamped: 26-9-95

9. Number of dangerous goods depots at site: 1

10. Trading name or occupier's name: WENTWORTH HOSPITAL

11. Postal address of applicant: PO BOX 38 | Suburb/Town: WENTWORTH | Postcode: 2648

12. Contact for licence enquiries:
    Phone: 050 272345 | Fax: 050 | Name: MRS WIN SWANTON

DATA ENTE 05 DEC 1995

I certify that the details contained in this application (or the accompanying computer disk) are true and correct

13. Signature of applicant: [signature] | Date: 23/8/95

Please complete attached site sketch, depot listing and check sheet (if required) and return to WorkCover Authority in envelope provided.

29 JAN 1996

Form DG1

PART C

CHEMICAL STORAGE

Complete 1 section per depot

If you have more depots than the space provided, photocopy sufficient sheets first.

Depot number	Type of depot	Class	Licensed maximum storage capacity
1	ABOVE GROUND TANK	2.1	4300 Litre

UN number	Shipping name	Pkg. Class	Pkg. Group	EPG	Product or common name	Typical quantity	Unit eg. L, kg, m³
1978	PROPANE	2.1				3500 ~~4300~~	L

Depot number	Type of depot	Class	Licensed maximum storage capacity

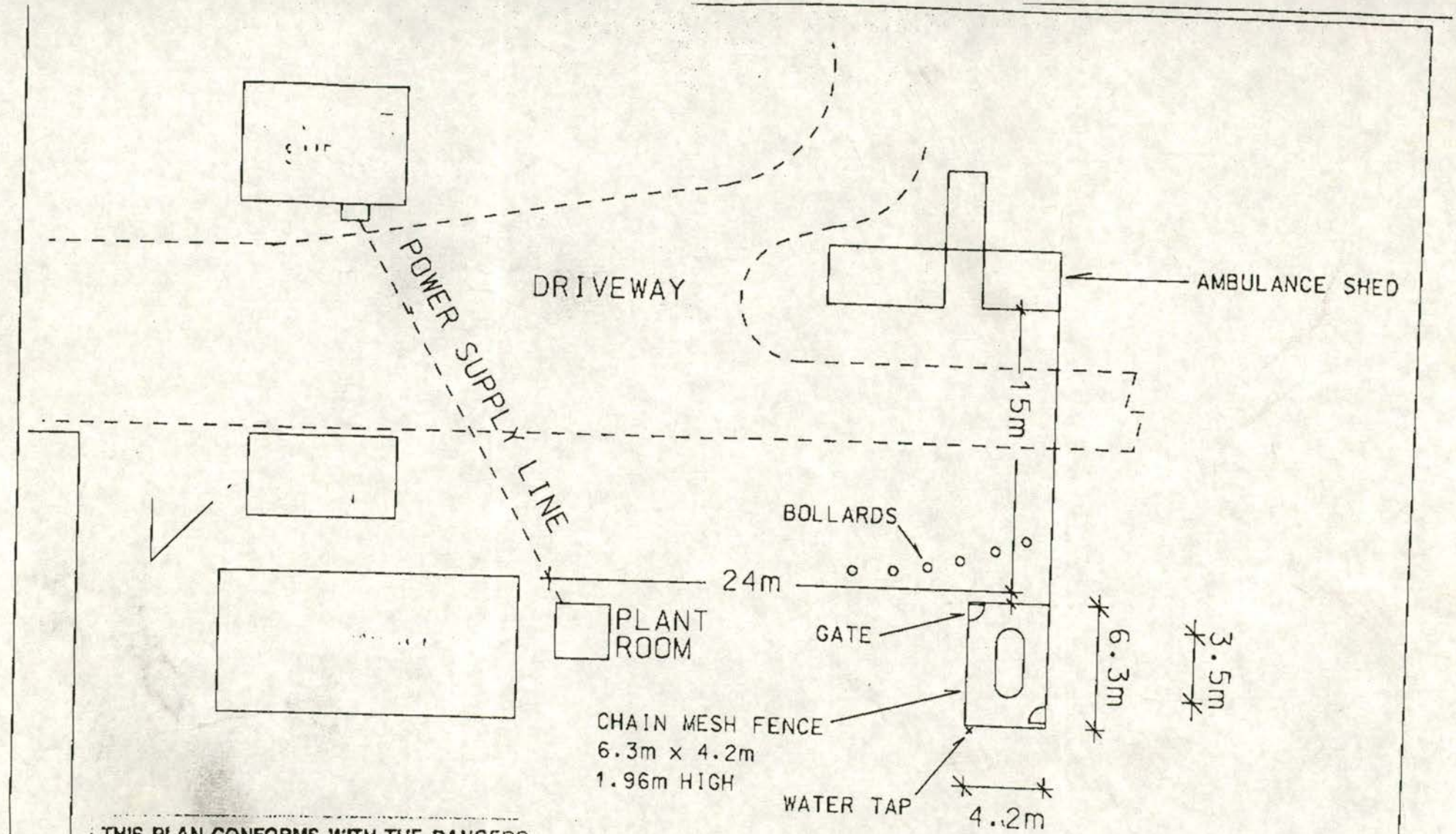
UN number	Shipping name	Pkg. Class	Pkg. Group	EPG	Product or common name	Typical quantity	Unit eg. L, kg, m³

Depot number	Type of depot	Class	Licensed maximum storage capacity

UN number	Shipping name	Pkg. Class	Pkg. Group	EPG	Product or common name	Typical quantity	Unit eg. L, kg, m³

Depot number	Type of depot	Class	Licensed maximum storage capacity

UN number	Shipping name	Pkg. Class	Pkg. Group	EPG	Product or common name	Typical quantity	Unit eg. L, kg, m³



THIS PLAN CONFORMS WITH THE DANGERO GOODS ACT NSW, 1975 AND AUSTRALIAN STANDARD AS. 1596-89.
SIGNED FOR BORAL GAS (NSW) PTY. LTD.

BY .....

DATE 26.9.95 DRG. No. 530/95

INSTALLATION PROPOSAL		Boral Gas (NSW) Pty Limited Burrows Road South St. Peters NSW 2044
CUSTOMER: WENTWORTH HOSPITAL		
CONTACT:	REP:	SCALE: 1:200
APPLICATION:	TANK SIZE:	DATE:

MURRAY HEALTH SERVICE

Address correspondence to:
The General Manager
PO Box 291
Deniliquin NSW 2710
Telephone (058) 81 2222
Facsimile (058) 81 1728

M.H.S.

Incorporating Hospitals and Community Health Centres in the areas covered by:
Berrigan, Jerilderie, Finley, Tocumwal, Deniliquin, Barham, Balranald, Wentworth

Enquiries to:

RECEIVED
13 OCT 1995
SCIENTIFIC SERVICES BRANCH

Mr. G. Hawkins
Director of Admin & Management
Workcover NSW
Locked Mail Bag 961
NORTH SYDNEY NSW 2058

Monday 25th September 1995

Dear Sir,

APPLICATION FOR LICENSE TO KEEP DANGEROUS GOODS.

As requested the information needed for license application at each hospital within the Murray Health Service is following:-

Site plans for **Barham** and **Wentworth** Hospitals are being processed by Boral, Wagga Wagga and will follow as soon as possible.

* **Deniliquin** site plan has been upgraded to include a bulk oxygen tank.

* **Berrigan** and **Jerilderie** have the pressure vessel number added to the register.

If any more information is needed please do not hesitate to contact me.

John Ferguson
ACTING MANAGER ENGINEERING & MAINTENANCE

Per: L. Hook

-4. OCT. 1995

file to Re

PART A

LICENCE TO KEEP DANGEROUS GOODS

WORKCOVER NEW SOUTH WALES

(Dangerous Goods Act 1975)

Application for new licence, amendment or transfer

1. Name of applicant: WENTWORTH DISTRICT HOSPITAL + HEALTH SERVICE
   ACN:
2. Site to be licensed
   No: —
   Street: SILVER CITY HIGHWAY
   Suburb/Town: WENTWORTH N.S.W.
   Postcode: 2648
3. Previous licence number (if known): NOT KNOWN
4. Nature of site: PUBLIC HOSPITAL
5. Emergency contact on site:
   Phone: (050) 27 2345
   Name: STAFF ON DUTY (WIN SWANTON - MANAGER)
6. Site staffing: Hours per day: TWENTY-FOUR Days per week: SEVEN
7. Major supplier of dangerous goods: SAGASCO (WAGGA GAS)
8. If new site or significant modification
   Plan stamped by: N/A.
   Accredited consultant's name:
   Date stamped:
9. Number of dangerous goods depots at site: ONE
10. Trading name or occupier's name: WENTWORTH DISTRICT HOSPITAL & HEALTH SERVICE
11. Postal address of applicant: P.O. BOX 38
    Suburb/Town: WENTWORTH NSW
    Postcode: 2648
12. Contact for licence enquiries:
    Phone: (050) 27 2345
    Fax: (050) 27 3099
    Name: WIN SWANTON

RECEIVED 11 SEP 1995 SCIENTIFIC SERVICES BRANCH

I certify that the details contained in this application (or the accompanying computer disk) are true and correct

13. Signature of applicant: [signature] Date: 04-09-95

Please complete attached site sketch, depot listing and check sheet (if required) and return to WorkCover Authority in envelope provided.

Form DG1

PART B

Site Sketch

Please carefully read the instructions in Part B of the guide before sketching the site.

B1013748
35/030672
Government Records Repository
F009883717
UNIFILE

Appendix D Bore Hole Logs

TEST PIT TP01

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 09-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1, 0.2, 0.3		Fill	Silty CLAY, brown, heterogeneous, dry, soft, low plasticity, inclusions of rootlets, gravels, porcelain	D	TP01-0-0.1	2	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.3, 0.4		Fill	Silty CLAY, dark brown/grey, heterogeneous, dry, soft, low plasticity, inclusions of rootlets	D	TP01-0.3-0.4	0.3	20L AQ @ 0.3-0.4 completed. No odours, staining or ACM noted.
		0.4, 0.5, 0.6, 0.7, 0.8, 0.9		CL	CLAY, dark brown/grey, homogeneous, dry, stiff, low plasticity, inclusions of rootlets	D	TP01-0.5-0.6	0.1	No odours, staining or ACM noted.
									End of hole at program depth.
		0.9, 1, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6			Termination Depth at: 0.90 m.				

Comments:

Disclaimer This log is intended for environmental not geotechnical purposes.
produced by ESlog.ESdat.net on 01 Sep 2022

TEST PIT TP02

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 09-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Silty CLAY, brown, heterogeneous, dry, soft, low plasticity, inclusions of rootlets, gravels, ACM fragment, concrete	D	TP02-0-0.1	3.2	20L AQ @ 0-0.1 completed. 2x ACM fragments in fill. No odours or staining noted.
		0.2							
		0.3					TP02-0.3-0.4	0.5	No odours or staining noted.
		0.4		CL	CLAY, brown/grey, heterogeneous, dry, soft, low plasticity, inclusions of rootlets, gravels	D			
		0.5					TP02-0.5-0.6	0.5	No odours or staining noted.
		0.6							
		0.7							
		0.8							
		0.9							
		1					TP02-1-1.1	0.3	No odours, staining or ACM noted.
		1.1			Termination Depth at: 1.10 m.				End of hole at program depth.
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							

Comments:

Disclaimer This log is intended for environmental not geotechnical purposes.
produced by ESlog.ESdat.net on 01 Sep 2022

TEST PIT TP03

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 09-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1, 0.2, 0.3, 0.4		Fill	Silty CLAY, brown, heterogeneous, dry, soft, low plasticity, inclusions of rootlets, gravels, porcelain, ACM, concrete, glass, terracotta, brick	D	TP03-0-0.1	0.8	20L AQ @ 0-0.1 completed. 1x ACM fragment in fill. No odours or staining noted.
							TP03-0.3-0.4	5	No odours, staining or ACM noted.
		0.5, 0.6, 0.7, 0.8, 0.9, 1		Fill	Silty CLAY, brown, heterogeneous, dry, soft, low plasticity, inclusions of gravels	D			
							TP03-0.5-0.6	0.3	No odours, staining or ACM noted.
		1.1, 1.2, 1.3, 1.4, 1.5		CL	CLAY, brown/grey, heterogeneous, dry, soft, low plasticity, inclusions of rootlets, gravels	D			
							TP03-1.4-1.5	1.2	No odours, staining or ACM noted.
		1.6			Termination Depth at: 1.50 m.				End of hole at program depth.

Comments:

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TEST PIT TP04

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 09-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1, 0.2, 0.3, 0.4		Fill	SILT, dark brown, heterogeneous, dry, loose, non-plastic, inclusions of brick, plastic, rootlets, tile	D	TP04-0-0.1	3.2	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.4, 0.5		Fill	Silty GRAVEL, brown, heterogeneous, dry, loose, low plasticity, inclusions of coarse gravels	D	TP04-0.4-0.5	1.8	20L AQ @ 0.4-0.5 completed. No odours, staining or ACM noted.
		0.5, 0.6, 0.7		Fill	Silty CLAY, brown, heterogeneous, dry, soft, low plasticity, inclusions of rootlets	D	TP04-0.5-0.6	1.5	20L AQ @ 0.5-0.6 completed. No odours, staining or ACM noted.
		0.7, 0.8, 0.9, 1, 1.1, 1.2		CL	CLAY, brown/grey, heterogeneous, dry, soft, low plasticity, inclusions of rootlets	D	TP04-1-1.1	1.2	No odours, staining or ACM noted.
									End of hole at program depth.
		1.3, 1.4, 1.5, 1.6			Termination Depth at: 1.20 m.				

Comments:

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TEST PIT TP05

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 09-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Silty SAND, brown, heterogeneous, dry, soft, plasticity, inclusions rootlets	SM	TP05-0-0.1	2.3	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.2		CL-SC	Sandy CLAY, yellow/grey, homogeneous, damp, firm, low plasticity	SM			
		0.3					TP05-0.3-0.4	0.5	No odours, staining or ACM noted.
		0.4							
		0.5					TP05-0.5-0.6	1.2	No odours, staining or ACM noted.
		0.6			Termination Depth at: 0.60 m.				End of hole at program depth.
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							

Comments:

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TEST PIT TP06

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 09-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit				Fill	Silty SAND, brown, heterogeneous, dry, soft, plasticity, inclusions rootlets	D	TP06-0-0.1	0.3	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.1		CL-SC	Sandy CLAY, yellow/grey, homogeneous, damp, firm, low plasticity	D			
		0.2							
		0.3					TP06-0.3-0.4	1.5	No odours, staining or ACM noted.
		0.4							
		0.5					TP06-0.5-0.6	1.8	No odours, staining or ACM noted.
		0.6			Termination Depth at: 0.60 m.				End of hole at program depth.
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							

Comments:

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TEST PIT TP07

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 09-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Clayey SAND, brown, heterogeneous, dry, soft, low plasticity, inclusions of gravels	D	TP07-0-0.1	2.1	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.2		Fill	Silty CLAY, brown, heterogeneous, dry, soft, low plasticity, inclusions of rootlets, gravels, porcelain	D	TP07-0.1-0.2	3.1	20L AQ @ 0.1-0.2 completed. No odours, staining or ACM noted.
		0.3		CL-SC	Sandy CLAY, yellow/grey, homogeneous, damp, firm, low plasticity	D			
		0.4					TP07-0.3-0.4	0.2	No odours, staining or ACM noted.
		0.5							
		0.6					TP07-0.5-0.6	0.5	No odours, staining or ACM noted.
		0.7							End of hole at program depth.
		0.8			Termination Depth at: 0.70 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							

Comments:

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TEST PIT TP08

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 09-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit				Fill	Silty CLAY, brown, heterogeneous, dry, soft, low plasticity, inclusions of rootlets	D	TP08-0-0.1	2.2	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.1		CL-SC	Sandy CLAY, yellow/grey, homogeneous, damp, firm, low plasticity	SM			
		0.2							
		0.3					TP08-0.3-0.4	0.3	No odours, staining or ACM noted.
		0.4							
		0.5					TP08-0.5-0.6	0.5	No odours, staining or ACM noted.
		0.6			Termination Depth at: 0.60 m.				End of hole at program depth.
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							

Comments:

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TEST PIT TP09

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 09-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Silty CLAY, brown, heterogeneous, dry, soft, low plasticity, inclusions of rootlets, gravels	D	TP09-0-0.1	3.1	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.2		CL-SC	Sandy CLAY, yellow/grey, homogeneous, damp, firm, low plasticity	SM			
		0.3					TP09-0.3-0.4	2.5	No odours, staining or ACM noted.
		0.4							
		0.5					TP09-0.5-0.6	2.2	No odours, staining or ACM noted.
		0.6							
		0.7							End of hole at program depth.
		0.8			Termination Depth at: 0.80 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							

Comments:

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TEST PIT TP10

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 09-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit				Fill	Clayey SAND, brown, heterogeneous, dry, soft, low plasticity, inclusions of gravels	D	TP10-0-0.1	3.1	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.1		Fill	Silty CLAY, brown, heterogeneous, dry, soft, low plasticity, inclusions of rootlets	SM			
		0.2							
		0.3					TP10-0.3-0.4	0.5	20L AQ @ 0.3-0.4 completed. No odours, staining or ACM noted.
		0.4		CL-SC	Sandy CLAY, yellow/grey, homogeneous, damp, firm, low plasticity	SM			
		0.5					TP10-0.5-0.6	0.4	No odours, staining or ACM noted.
		0.6							
		0.7							
		0.8							
		0.9							End of hole at program depth.
					Termination Depth at: 0.90 m.				
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							

Comments:

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TEST PIT TP11

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 09-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Silty CLAY, brown, heterogeneous, dry, soft, low plasticity, inclusions of rootlets, gravels	D	TP11-0-0.1	1.1	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.2		CL-SC	Sandy CLAY, yellow/grey, homogeneous, damp, firm, low plasticity	SM			
		0.3					TP11-0.3-0.4	1.5	No odours, staining or ACM noted.
		0.4							
		0.5					TP11-0.5-0.6	2.2	No odours, staining or ACM noted.
		0.6							
		0.7							End of hole at program depth.
		0.8			Termination Depth at: 0.70 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							

Comments:

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TEST PIT TP12

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 09-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit				Fill	Silty CLAY, brown, heterogeneous, dry, soft, low plasticity, inclusions of rootlets, gravels	D	TP12-0-0.1	0.8	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.1		CL-SC	Sandy CLAY, yellow/grey, homogeneous, damp, firm, low plasticity	SM			
		0.2							
		0.3					TP12-0.3-0.4	0.5	No odours, staining or ACM noted.
		0.4							
		0.5					TP12-0.5-0.6	0.5	No odours, staining or ACM noted.
		0.6			Termination Depth at: 0.60 m.				End of hole at program depth.
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							

Comments:

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TEST PIT TP13

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 09-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Silty CLAY, brown, heterogeneous, dry, soft, low plasticity, inclusions of rootlets, gravels, terracotta	D	TP13-0-0.1	2.8	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.2		CL-SC	Sandy CLAY, yellow/grey, homogeneous, damp, firm, low plasticity	SM			
		0.3					TP13-0.3-0.4	2.1	No odours, staining or ACM noted.
		0.4							
		0.5					TP13-0.5-0.6	2.1	No odours, staining or ACM noted.
		0.6			Termination Depth at: 0.60 m.				End of hole at program depth.
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							

Comments:

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TEST PIT TP14

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 09-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2		Fill	Silty CLAY, brown, heterogeneous, dry, soft, low plasticity, inclusions of tree roots	D	TP14-0-0.1	0.5	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted
		0.3 0.4 0.5 0.6 0.7 0.8		CL	CLAY, dark grey/brown, heterogeneous, dry, soft, low plasticity	SM	TP14-0.3-0.4	0.2	No odours, staining or ACM noted.
							TP14-0.5-0.6	0.3	No odours, staining or ACM noted.
									End of hole at program depth.
		0.9 1 1.1 1.2 1.3 1.4 1.5 1.6			Termination Depth at: 0.80 m.				

Comments:

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TEST PIT TP15

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 09-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Silty CLAY, brown, heterogeneous, dry, soft, low plasticity, inclusions of rootlets, gravels	D	TP15-0-0.1	0.6	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.2		CL-SC	Sandy CLAY, yellow/grey, homogeneous, damp, firm, low plasticity	SM			
		0.3					TP15-0.3-0.4	0.8	No odours, staining or ACM noted.
		0.4							
		0.5					TP15-0.5-0.6	0.9	No odours, staining or ACM noted.
		0.6							
		0.7							End of hole at program depth.
		0.8			Termination Depth at: 0.70 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							

Comments:

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TEST PIT TP16

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 09-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1, 0.2, 0.3		Fill	Silty CLAY, brown, heterogeneous, dry, soft, low plasticity, inclusions of rootlets, concrete, plastic	D	TP16-0-0.1	3.2	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.3, 0.4		Fill	Clay SAND, red, heterogeneous, dry, soft, low plasticity	D	TP16-0.3-0.4	0.5	20L AQ @ 0.3-0.4 completed. No odours, staining or ACM noted.
		0.4, 0.5, 0.6, 0.7, 0.8, 0.9		CL	CLAY, brown, heterogeneous, dry, soft, low plasticity	SM	TP16-0.5-0.6	0.6	No odours, staining or ACM noted.
									End of hole at program depth.
		1, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6			Termination Depth at: 0.90 m.				

Comments:

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TEST PIT TP17

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 10-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2		Fill	Silty CLAY, brown, heterogeneous, dry, soft, low plasticity, inclusions of rootlets	D	TP17-0-0.1	0.3	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.3 0.4 0.5 0.6 0.7 0.8		CL	CLAY, dark brown/grey, heterogeneous, dry, soft, low plasticity	SM	TP17-0.3-0.4	0.2	No odours, staining or ACM noted.
							TP17-0.5-0.6	0.2	No odours, staining or ACM noted.
									End of hole at program depth.
		0.9 1 1.1 1.2 1.3 1.4 1.5 1.6			Termination Depth at: 0.80 m.				

Comments:

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TEST PIT TP18

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 10-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Silty CLAY, brown, heterogeneous, dry, soft, low plasticity, inclusions of rootlets, PVC	D	TP18-0-0.1	0.1	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.2		CL	CLAY, brown, heterogeneous, dry, soft, low plasticity	SM			
		0.3					TP18-0.3-0.4	0.8	No odours, staining or ACM noted.
		0.4							
		0.5					TP18-0.5-0.6	0.2	No odours, staining or ACM noted.
		0.6							
		0.7							End of hole at program depth.
		0.8			Termination Depth at: 0.70 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							

Comments:

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TEST PIT TP19

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 10-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Silty CLAY, dark brown, heterogeneous, dry, soft, low plasticity, inclusions of rootlets	D	TP19-0-0.1	2.1	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.2		SC	Clayey SAND, grey/yellow, homogeneous, dry, stiff	D			
		0.3					TP19-0.3-0.4	1.5	No odours, staining or ACM noted.
		0.4							
		0.5					TP19-0.5-0.6	0.8	No odours, staining or ACM noted.
		0.6			Termination Depth at: 0.60 m.				End of hole at program depth.
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							

Comments:

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TEST PIT TP20

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 10-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit				Fill	Silty CLAY, brown, heterogeneous, dry, soft, low plasticity, inclusions of rootlets	D	TP20-0-0.1	0.4	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.1		CL	CLAY, brown, heterogeneous, dry, soft, low plasticity	SM			
		0.2							
		0.3					TP20-0.3-0.4	0.5	No odours, staining or ACM noted.
		0.4							
		0.5					TP20-0.5-0.6	0.7	No odours, staining or ACM noted.
		0.6			Termination Depth at: 0.60 m.				End of hole at program depth.
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							

Comments:

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TEST PIT TP21

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 10-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Silty CLAY, red/brown, heterogeneous, dry, soft, low plasticity	D	TP21-0-0.1	2.1	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.2		CL	CLAY, grey, heterogeneous, dry, soft, low plasticity	SM			
		0.3					TP21-0.3-0.4	0.2	No odours, staining or ACM noted.
		0.4							
		0.5		CL	CLAY, yellow/grey, heterogeneous, dry, soft, low plasticity	SM	TP21-0.5-0.6	0.8	No odours, staining or ACM noted.
		0.6			Termination Depth at: 0.60 m.				End of hole at program depth.
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							

Comments:

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TEST PIT TP22

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 10-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit				Fill	Silty SAND, brown/red, heterogeneous, damp, inclusions rootlets	SM	TP22-0-0.1	0.3	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.1		CL	CLAY, grey, homogeneous, damp, soft, medium plasticity, soft, inclusions tree roots	SM			
		0.2							
		0.3					TP22-0.3-0.4	0.1	No odours, staining or ACM noted.
		0.4							
		0.5					TP22-0.5-0.6	0.1	No odours, staining or ACM noted.
		0.6			Termination Depth at: 0.60 m.				End of hole at program depth.
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							

Comments:

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TEST PIT TP23

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 10-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Silty CLAY, red/brown, heterogeneous, fry, soft, inclusions of rootlets	SM	TP23-0-0.1	0.2	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.2		CL-SC	Sandy CLAY, yellow/grey, homogeneous, dry, firm, low plasticity	SM			
		0.3					TP23-0.3-0.4	0.2	No odours, staining or ACM noted.
		0.4							
		0.5					TP23-0.5-0.6	0.1	No odours, staining or ACM noted.
		0.6			Termination Depth at: 0.60 m.				End of hole at program depth.
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							

Comments:

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TEST PIT TP24

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 10-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit				Fill	Silty CLAY, red/brown, inclusions of rootlets, gravels, igneous rock	SM	TP24-0-0.1	0.3	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.1		CL	CLAY, dark brown/grey, heterogeneous, dry, soft, low plasticity, inclusions of rootlets, wood charcoal	SM			
		0.2							
		0.3					TP24-0.3-0.4	0.4	No odours, staining or ACM noted.
		0.4							
		0.5		CL-SC	Sandy CLAY, yellow/grey, heterogeneous dry, soft, low plasticity	SM	TP24-0.5-0.6	0.1	No odours, staining or ACM noted.
		0.6							
		0.7							
		0.8							
		0.9							
		1							End of hole at program depth.
					Termination Depth at: 1.00 m.				
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							

Comments:

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TEST PIT TP25

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 10-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Silty CLAY, red/brown, inclusions of rootlets, plastic	D	TP25-0-0.1	0.9	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.2		Fill	SAND, yellow/white, heterogeneous, dry, inclusions of cobbles	D	TP25-0.2-0.25	0.8	No odours, staining or ACM noted.
		0.3		CL	CLAY, grey/brown, heterogeneous, dry, soft, low plasticity	SM	TP25-0.3-0.4	0.8	No odours, staining or ACM noted.
		0.4							
		0.5					TP25-0.5-0.6	0.1	No odours, staining or ACM noted.
		0.6							
		0.7							End of hole at program depth.
		0.8			Termination Depth at: 0.70 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							

Comments:

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TEST PIT TP26

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 10-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit				Fill	Silty CLAY, red/brown, heterogeneous, dry, soft	D	TP26-0-0.1	0.5	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.1		Fill	CLAY, grey/brown, heterogeneous, dry, soft, low plasticity	D			
		0.2							
		0.3					TP26-0.3-0.4	0.4	No odours, staining or ACM noted.
		0.4							
		0.5		CL-SC	Sandy CLAY, grey/brown, homogeneous, damp, firm, low plasticity	SM	TP26-0.5-0.6	0.1	No odours, staining or ACM noted.
		0.6							
		0.7							End of hole at program depth.
		0.8			Termination Depth at: 0.80 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							

Comments:

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TEST PIT TP27

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 10-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Clayey SAND, red, heterogeneous, dry, inclusions of rootlets	D	TP27-0-0.1	2.1	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.2		Fill	Silty CLAY, brown, damp, inclusions of roots, rootlets, wood, concrete, metal pipe	SM			
		0.3					TP27-0.3-0.4	0.6	20L AQ @ 0.3-0.4 completed. No odours, staining or ACM noted.
		0.4							
		0.5					TP27-0.5-0.6	0.7	No odours, staining or ACM noted.
		0.6							
		0.7							
		0.8							
		0.9							End of hole upon potential live service.
		1			Termination Depth at: 1.00 m.				
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							

Comments:

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TEST PIT TP28

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 10-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3 0.4		Fill	Silty CLAY, brown, heterogeneous, dry, soft, low plasticity, inclusions of rootlets, plastic, PVC pipe	D	TP28-0-0.1	0.2	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
							TP28-0.3-0.4	0.2	No odours, staining or ACM noted.
		0.5 0.6 0.7 0.8 0.9 1 1.1 1.2 1.3 1.4 1.5 1.6			Termination Depth at: 0.40 m.				End of hole upon potential live service.

Comments:

TEST PIT TP29

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 10-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Silty CLAY, brown, heterogeneous, dry	D	TP29-0-0.1	0.1	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.2		Fill	CLAY, dark brown, heterogeneous, dry, soft, low plasticity, inclusions of roots	D			
		0.3					TP29-0.3-0.4	0.2	No odours, staining or ACM noted.
		0.4							
		0.5		CL-SC	Sandy CLAY, light grey/yellow, homogeneous, damp, firm, low plasticity	SM	TP29-0.5-0.6	0.1	No odours, staining or ACM noted.
		0.6							
		0.7							End of hole at program depth.
		0.8			Termination Depth at: 0.70 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							

Comments:

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TEST PIT TP30

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 10-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Silty CLAY, heterogeneous, inclusions of roots, plastic, glass	D	TP30-0-0.1	0.1	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.2		Re-Worked Natural	CLAY, dark brown/grey, heterogeneous, damp inclusions of gravels	SM			
		0.3					TP30-0.3-0.4	0.1	20L AQ @ 0.3-0.4 completed. No odours, staining or ACM noted.
		0.4		CL	CLAY, dark brown/grey, heterogeneous, damp	SM			
		0.5					TP30-0.5-0.6	0.1	No odours, staining or ACM noted.
		0.6							
		0.7							
		0.8							
		0.9							End of hole at program depth.
					Termination Depth at: 0.90 m.				
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							

Comments:

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TEST PIT TP31

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 10-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit				Fill	Silty CLAY, red/brown, heterogeneous, inclusion of rootlets	D	TP31-0-0.1	0.5	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.1		CL	CLAY, dark brown, heterogeneous, dry, soft, low plasticity, inclusions of roots	SM			
		0.2							
		0.3					TP31-0.3-0.4	0.3	No odours, staining or ACM noted.
		0.4							
		0.5					TP31-0.5-0.6	0.2	No odours, staining or ACM noted.
		0.6							
		0.7		CL-SC	Sandy CLAY, grey/yellow, homogeneous, damp, firm, low plasticity	SM	TP31-0.7-0.8	0.1	No odours, staining or ACM noted.
		0.8							
		0.9							End of hole at program depth.
		1			Termination Depth at: 1.00 m.				
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							

Comments:

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TEST PIT TP32

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 10-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Silty CLAY, heterogeneous, dry, inclusions glass, rootlets	D	TP32-0-0.1	0.2	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.2		Re-Worked Natural	CLAY, brown, heterogeneous, damp, inclusions of gravels	SM			
		0.3					TP32-0.3-0.4	0.3	20L AQ @ 0.3-0.4 completed. No odours, staining or ACM noted.
		0.4							
		0.5		Fill	CLAY, dark brown, heterogeneous, damp, inclusions of terracotta, glass, ACM fragments, gravels, tile, metal	SM	TP32-0.5-0.6	0.5	20L AQ @ 0.5-0.6 completed.3x ACM fragments, 23g. No odours or staining noted.
		0.6					TP32-0.6-0.7	0.5	
		0.7		CL	CLAY, dark brown/grey, heterogeneous, damp	SM			
		0.8							
		0.9							
		1					TP32-1-1.1	0.1	No odours, staining or ACM noted.
		1.1		CL-SC	Sandy CLAY, grey/yellow, homogeneous, damp, firm, low plasticity	SM			End of hole at program depth.
		1.2			Termination Depth at: 1.20 m.				
		1.3							
		1.4							
		1.5							
		1.6							

Comments:

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TEST PIT TP33

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 10-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1, 0.2, 0.3, 0.4		Fill	Silty CLAY, heterogeneous, dry, inclusions of wood, rootlets, glass, gravels, brick, ACM, concrete, tile	D	TP33-0-0.1	0.1	20L AQ @ 0-0.1 completed. 3x ACM fragments in fill. No odours or staining noted.
							TP33-0.3-0.4	0.1	No odours or staining noted, 2x ACM fragments in fill
		0.5, 0.6, 0.7		Re-Worked Natural	CLAY, dark brown, heterogeneous, inclusions of gravels	SM	TP33-0.5-0.6	0.2	20L AQ @ 0.5-0.6 completed. No odours, staining or ACM noted.
		0.8, 0.9, 1, 1.1, 1.2		CL	CLAY, dark brown, homogeneous	SM	TP33-1-1.1	0.3	No odours, staining or ACM noted.
									End of hole at program depth.
		1.3, 1.4, 1.5, 1.6			Termination Depth at: 1.20 m.				

Comments:

TEST PIT TP34

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 10-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3 0.4 0.5		Fill	Silty CLAY, heterogeneous, damp, inclusions of rootlets, ACM, wood charcoal, PVC pipe	SM	TP34-0-0.1	0.3	20L AQ @ 0-0.1 completed. 1x ACM fragment in fill. No odours or staining noted.
							TP34-0.3-0.4	0.1	No odours, staining or ACM noted.
									End of hole upon potential live service.
		0.6 0.7 0.8 0.9 1 1.1 1.2 1.3 1.4 1.5 1.6			Termination Depth at: 0.50 m.				

Comments:

TEST PIT TP35

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 10-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit				Fill	Silty CLAY, heterogeneous, damp, inclusions of glass, brick, terracotta	SM	TP35-0-0.1	0.9	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.1		CL-SC	Sandy CLAY, dark brown/grey, damp	SM			
		0.2							
		0.3					TP35-0.3-0.4	0.1	No odours, staining or ACM noted.
		0.4							
		0.5		CL-SC	Sandy CLAY, grey/yellow, damp	SM	TP35-0.5-0.6	0.1	No odours, staining or ACM noted.
		0.6			Termination Depth at: 0.60 m.				End of hole at program depth.
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							

Comments:

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TEST PIT TP36

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 10-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Silty CLAY, heterogeneous, dry, inclusions of rootlets	D	TP36-0-0.1	0.3	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.2		CL-SC	Sandy CLAY, brown/grey, damp	SM			
		0.3					TP36-0.3-0.4	0.02	No odours, staining or ACM noted.
		0.4		SC	Clayey SAND, yellow/grey, damp	SM			
		0.5					TP36-0.5-0.6	0.1	No odours, staining or ACM noted.
		0.6			Termination Depth at: 0.60 m.				End of hole at program depth.
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							

Comments:

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TEST PIT TP37

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 10-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit				Fill	Silty CLAY, heterogeneous, dry	D	TP37-0-0.1	0.5	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.1		CL	CLAY, dark brown/grey, damp	SM			
		0.2							
		0.3					TP37-0.3-0.4	0.3	No odours, staining or ACM noted.
		0.4							
		0.5		SC	Clayey SAND, yellow/grey, damp	SM	TP37-0.5-0.6	0.2	No odours, staining or ACM noted.
		0.6			Termination Depth at: 0.60 m.				End of hole at program depth.
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							

Comments:

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TEST PIT TP38

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 10-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit				Fill	Silty CLAY, heterogeneous, dry	D	TP38-0-0.1	0.1	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.1		CL	CLAY, homogeneous, damp	SM			
		0.2							
		0.3					TP38-0.3-0.4	0.3	No odours, staining or ACM noted.
		0.4							
		0.5		CL-SC	Sandy CLAY, yellow/grey, damp	SM	TP38-0.5-0.6	0.1	No odours, staining or ACM noted.
		0.6			Termination Depth at: 0.60 m.				End of hole at program depth.
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							

Comments:

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TEST PIT TP39

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 10-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2		Fill	Silty CLAY, heterogeneous, damp, inclusions of rootlets, lithic gravels	D	TP39-0-0.1	0.5	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.3 0.4		CL	CLAY, dark brown/grey, heterogeneous, damp	SM	TP39-0.3-0.4	0.6	No odours, staining or ACM noted.
		0.5 0.6 0.7 0.8		CL-SC	Sandy CLAY, yellow/grey, damp	SM	TP39-0.5-0.6	0.6	No odours, staining or ACM noted. End of hole at program depth.
		0.9 1 1.1 1.2 1.3 1.4 1.5 1.6			Termination Depth at: 0.80 m.				

Comments:

TEST PIT TP40

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 10-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Silty CLAY, red/brown, heterogeneous, dry	D	TP40-0-0.1	0.5	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.2		Fill	CLAY, dark brown, heterogeneous, damp	SM			
		0.3					TP40-0.3-0.4	0.6	No odours, staining or ACM noted.
		0.4							
		0.5		CL-SC	Sandy CLAY, yellow/grey, damp	SM	TP40-0.5-0.6	0.2	No odours, staining or ACM noted.
		0.6							
		0.7							End of hole at program depth.
		0.8			Termination Depth at: 0.70 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							

Comments:

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TEST PIT TP41

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 10-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit				Fill	Silty CLAY, red/brown, heterogeneous, dry, inclusions of ACM	D	TP41-0-0.1	0.2	20L AQ @ 0-0.1 completed. 1x ACM fragment in fill. No odours or staining noted.
		0.1		CL	CLAY, dark brown/grey, damp	SM			
		0.2							
		0.3					TP41-0.3-0.4	0.3	No odours, staining or ACM noted.
		0.4							
		0.5					TP41-0.5-0.6	0.4	No odours, staining or ACM noted.
		0.6			Termination Depth at: 0.60 m.				End of hole at program depth.
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							

Comments:

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TEST PIT TP42

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor KW Excavations
Date 10-Aug-22
Plant N/A
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit				Fill	Silty CLAY, red/brown, heterogeneous, dry, inclusions of roadbase	D	TP42-0-0.1	0.8	Light staining. No odours or ACM noted.
		0.1		CL	CLAY, brown/grey, damp, inclusions of rootlets	SM	TP42-0.1-0.2	0.3	No odours, staining or ACM noted.
		0.2							
		0.3							
		0.4							
		0.5		CL-SC	Sandy CLAY, homogeneous, damp	SM	TP42-0.5-0.6	0.4	No odours, staining or ACM noted.
		0.6			Termination Depth at: 0.60 m.				End of hole at program depth.
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							

Comments:

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HAND AUGER HA43

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor N/A
Date 11-Aug-22
Plant N/A
Method Hand Auger
Borehole Diameter 150 mm

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Silty CLAY, dark brown, heterogeneous, moist, soft, low plasticity, inclusions of rootlets, gravels, wood charcoal	D	HA43-0-0.1	0.3	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.2					HA43-0.2-0.3	0.3	No odours, staining or ACM noted.
		0.3			Termination Depth at: 0.30 m.				End of hole at program depth (dripline assessment).
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							

Comments:

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HAND AUGER HA44

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor N/A
Date 11-Aug-22
Plant N/A
Method Hand Auger
Borehole Diameter 150 mm

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Gravelly SAND, orange/white, poorly graded, damp, coarse	D	HA44-0-0.1	0.1	No odours, staining or ACM noted.
		0.2		Fill	Silty CLAY, heterogeneous, dry, inclusions of concrete, plastic	SM			
							HA44-0.2-0.3	0.2	No odours, staining or ACM noted.
		0.3			Termination Depth at: 0.30 m.				End of hole upon refusal on concrete.
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							

Comments:

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HAND AUGER HA45

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor N/A
Date 11-Aug-22
Plant N/A
Method Hand Auger
Borehole Diameter 150 mm

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Silty CLAY, brown, heterogeneous, dry	D	HA45-0-0.1	2.1	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.2		Fill	Silty CLAY, red/brown, heterogeneous, damp	SM			
							HA45-0.2-0.3	2.2	No odours, staining or ACM noted.
		0.3			Termination Depth at: 0.30 m.				End of hole at program depth (dripline assessment).
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							

Comments:

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BOREHOLE BH46

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor ARTL
Date 11-Aug-22
Plant N/A
Method Solid Flight Auger
Borehole Diameter 150 mm

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1 0.2		Fill	Silty Sandy CLAY, brown, heterogeneous, dry	D	BH46-0-0.1	2	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.3 0.4		CL	CLAY, dark brown/grey, damp	SM	BH46-0.3-0.4	2.1	No odours, staining or ACM noted.
		0.5 0.6 0.7 0.8 0.9 1 1.1 1.2 1.3 1.4		CL	CLAY, light yellow/grey, damp	SM	BH46-0.5-0.6	2.5	No odours, staining or ACM noted.
		1.5							End of hole at program depth.
		1.6			Termination Depth at: 1.50 m.				

Comments:

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HAND AUGER HA47

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor N/A
Date 11-Aug-22
Plant N/A
Method Hand Auger
Borehole Diameter 150 mm

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Silty SAND, brown/red, heterogeneous, damp, inclusions of gravels, rootlets	D	HA47-0-0.1	3.1	No odours, staining or ACM noted.
		0.2							End of hole upon geofabric liner.
		0.3			Termination Depth at: 0.20 m.				
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							

Comments:

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HAND AUGER HA48

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor N/A
Date 11-Aug-22
Plant N/A
Method Hand Auger
Borehole Diameter 150 mm

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA				Fill	Gravelly Silty CLAY, red/brown, heterogeneous, inclusions limestone gravels	D	HA48-0-0.1	4	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.1		Fill	Silty CLAY, red/brown, heterogeneous, damp	SM			
		0.2					HA48-0.2-0.3	0.5	No odours, staining or ACM noted.
		0.3			Termination Depth at: 0.30 m.				End of hole at program depth (dripline assessment).
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							

Comments:

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HAND AUGER HA49

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor N/A
Date 11-Aug-22
Plant N/A
Method Hand Auger
Borehole Diameter 150 mm

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Silty CLAY, heterogeneous, damp, inclusions of rooltets	SM	HA49-0-0.1	3.8	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.2		Fill	Silty CLAY, heterogeneous, damp, inclusions of gravels	SM	HA49-0.1-0.2	0.7	No odours, staining or ACM noted.
		0.3			Termination Depth at: 0.20 m.				End of hole upon DGB gravels - suspected live service below.
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							

Comments:

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HAND AUGER HA50

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor N/A
Date 11-Aug-22
Plant N/A
Method Hand Auger
Borehole Diameter 150 mm

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Silty CLAY, red/brown, heterogeneous, dry	D	HA50-0-0.1	2.2	20L AQ @ 0-0.1 completed. No odours, staining or ACM noted.
		0.2		Re-Worked Natural	CLAY, red/grey, heterogeneous, damp	SM			
							HA50-0.2-0.3	0.8	No odours, staining or ACM noted.
		0.3			Termination Depth at: 0.30 m.				End of hole at program depth (dripline assessment).
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							

Comments:

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HAND AUGER SS01

Project Number 63097
Client Health Infrastructure
Project Name Wentworth Health Services Redevelopment
Address 24 Hospital Road, Wentworth

Contractor N/A
Date 11-Aug-22
Plant N/A
Method Hand Auger
Borehole Diameter 150 mm

Easting N/A
Northing N/A
Coordinate System N/A
Logged By GP

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Silty SAND, red/brown, heterogeneous, damp, inclusions of rootlets	SM	SS01-0-0.1	2.1	No odours, staining or ACM noted.
		0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1 1.1 1.2 1.3 1.4 1.5 1.6			Termination Depth at: 0.10 m.				End of hole at program depth (surface sample).

Comments:

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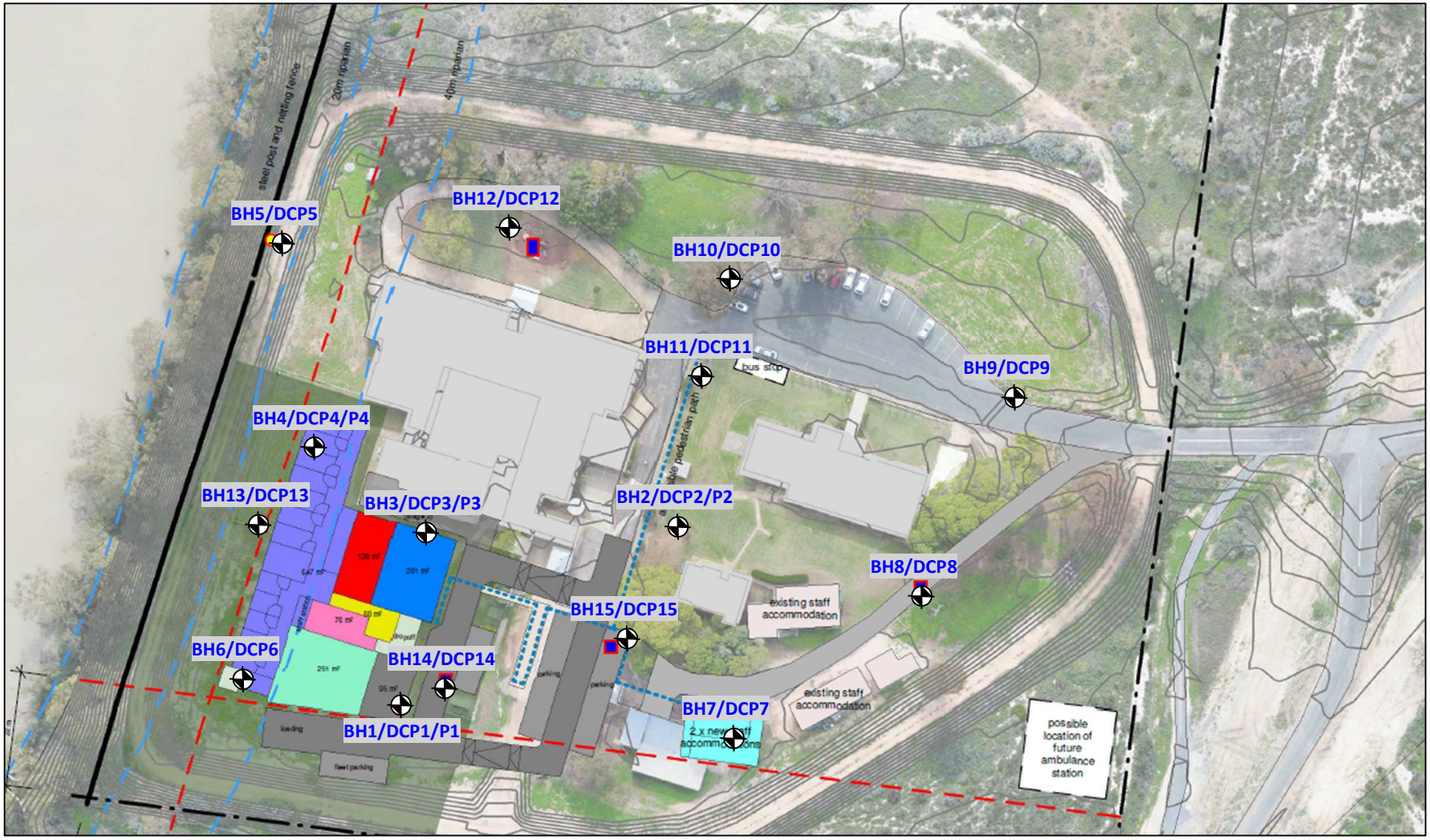

Aitken Rowe Testing Laboratories Pty Ltd

Registration Number: S22-348

Page 1 of 1

Client: JBS&G – SYDNEY, NSW

Project: GEOTECHNICAL INVESTIGATION
PROPOSED WENTWORTH HEALTH SERVICE REDEVELOPMENT,
24 HOSPITAL ROAD, WENWORTH, NSW
BOREHOLE & DCP TEST LOCATION PLAN

AITKEN ROWE TESTING LABORATORIES PTY LTD

Borehole No.: **1**
Sheet No.: 1 of 2

Ground Level: Existing
Method: Auger Drilling with TC Bit

Date: ***9/08/2022***
GPS N: ***6225203***
E: ***0585067***

USCS Symbol	Description	Depth (m)	Moisture Condition	Consistency/ Rel. Density	Sample Type	Sample No.	Field Test SPT	Remarks & Field Records	Piezometer
ML	FILL/TOPSOIL: Sandy SILT; low plasticity, fine to coarse sand, grey		MC<PL	St.				FILL: Appears moderately compacted 'Uncontrolled'	
ML	FILL: Sandy SILT; low plasticity, fine to coarse sand, trace gravel, grey	0.5		VSt.	D	1A			
CH	CLAY; high plasticity, with fine to coarse sand, grey	1.0			U50	1B		NATURAL	
CH	CLAY; high plasticity, trace sand, yellow	1.5			D	1C	1.5		
		2.0			D	1D	SPT 7,12, 17 N = 29		
		2.5					1.95		
CH	CLAY; high plasticity, trace sand, grey	3.0	MC>PL	St.-VSt.			3.0		
		3.5			D	1E	SPT 6, 9, 10 N = 19		
		4.0					3.45		
		4.5		St.	D	1F	4.5	Post drilling Seepage @ 4.2m Piezo installed	
					D	1G	SPT 6, 9, 10 N = 19		
SC	Clayey SAND; fine to medium grained, fines of medium plasticity, yellow grey	5.0	W	MD		1H	4.95	Seepage @ 4.8m to 6.4m	
		5.5							
		6.0							

DRAFT

Registration No.: S22-348

Location: Geotechnical Desktop Study - Proposed Wentworth Health Service Redevelopment, 24 Hospital Road, Wentworth, NSW

Client: JBS&G - Sydney, NSW

Logged By: PFT

Scale: As shown

Seepage @ 4.8m to 6.4m

AITKEN ROWE TESTING LABORATORIES PTY LTD

Borehole No.: **1**
Sheet No.: 2 of 2

Ground Level: Existing
Method: Auger Drilling with TC Bit

Date: ***9/08/2022***
GPS N: ***6225203***
E: ***0585067***

USCS Symbol	Description	Depth (m)	Moisture Condition	Consistency/ Rel. Density	Sample Type	Sample No.	Field Test SPT	Remarks & Field Records
SC	Clayey SAND; fine to medium grained, fines of medium plasticity, yellow grey		W	MD	D	1I	SPT 4, 5, 5 N = 10	
CH	CLAY; high plasticity, with fine to medium sand, grey	6.5	MC>PL	St.			6.45	End of Seepage
	End of Borehole (BH1) @ 7.5m	7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0						

DRAFT

Registration No.: S22-348

Location: Geotechnical Desktop Study - Proposed Wentworth Health Service Redevelopment, 24 Hospital Road, Wentworth, NSW

Client: JBS&G - Sydney, NSW

Logged By: PFT

Scale: As shown

Seepage @ 4.8m to 6.4m

AITKEN ROWE TESTING LABORATORIES PTY LTD

Borehole No.: **2**
Sheet No.: 1 of 2

Ground Level: Existing
Method: Auger Drilling with TC Bit

Date: ***9/08/2022***
GPS N: ***6225247***
E: ***0585120***

USCS Symbol	Description	Depth (m)	Moisture Condition	Consistency/ Rel. Density	Sample Type	Sample No.	Field Test SPT	Remarks & Field Records	Piezometer
ML	FILL/TOPSOIL: Sandy SILT; low plasticity, fine to coarse sand, grey		MC<PL	F				FILL: Appears moderately compacted 'Uncontrolled'	
CH	FILL: Silty CLAY; high plasticity, with fine to coarse sand, grey yellow	0.5	MC>PL	St.	D	2A			
CH	CLAY; high plasticity, with fine to coarse sand, grey		MC=PL		U50	2B		NATURAL	
CH	Silty CLAY; high plasticity, with fine to medium sand, yellow	1.0	MC<PL		D	2C	1.5		
CH	CLAY; high plasticity, with fine to medium sand, yellow grey	2.0	MC>PL		D	2D	SPT 6, 7, 9 N = 16 / 1.95		
CH	CLAY; high plasticity, trace sand, grey	3.0		VSt.	D	2E	SPT 6, 9, 11 N = 20 / 3.45		
		4.5		St.	D	2F	4.5 / SPT 4, 5, 6 N = 11 / 4.95	Post drilling Seepage @ 4.4m Piezo installed	
CI	Silty CLAY; medium plasticity, with fine to medium sand, grey yellow	6.0							

DRAFT

Registration No.: S22-348

Location: Geotechnical Desktop Study - Proposed Wentworth Health Service Redevelopment, 24 Hospital Road, Wentworth, NSW

Client: JBS&G - Sydney, NSW

Logged By: PFT

Scale: As shown

Seepage @ 6.0m to 7.5m (EOBH)

AITKEN ROWE TESTING LABORATORIES PTY LTD

Borehole No.: **2**
Sheet No.: 2 of 2

Ground Level: Existing
Method: Auger Drilling with TC Bit

Date: ***9/08/2022***
GPS N: ***6225247***
E: ***0585120***

USCS Symbol	Description	Depth (m)	Moisture Condition	Consistency/ Rel. Density	Sample Type	Sample No.	Field Test SPT	Remarks & Field Records
CI	Silty CLAY; medium plasticity, with fine to medium sand, grey yellow	6.5	MC>PL	St.	D	2G	SPT 5, 6, 9 N = 15	Seepage @ 6.0m to 7.5m (EOBH)
SC	Clayey SAND; fine to medium grained, fines of medium plasticity, yellow	7.0	W	MD	D	2H	6.45	
	End of Borehole (BH2) @ 7.5m	7.5						
		8.0						
		8.5						
		9.0						
		9.5						
		10.0						
		10.5						
		11.0						
		11.5						
		12.0						

Registration No.: S22-348

Location: Geotechnical Desktop Study - Proposed Wentworth Health Service Redevelopment, 24 Hospital Road, Wentworth, NSW

Client: JBS&G - Sydney, NSW

Logged By: PFT

Scale: As shown

Seepage @ 6.0m to 7.5m (EOBH)

DRAFT

AITKEN ROWE TESTING LABORATORIES PTY LTD

Borehole No.: **3**
Sheet No.: 1 of 2

Ground Level: Existing
Method: Auger Drilling with TC Bit

Date: ***10/08/2022***
GPS N: ***6225245***
E: ***0585074***

USCS Symbol	Description	Depth (m)	Moisture Condition	Consistency/ Rel. Density	Sample Type	Sample No.	Field Test SPT	Remarks & Field Records	Piezometer
ML	FILL/TOPSOIL: Sandy SILT; low plasticity, fine to coarse sand, grey		MC>PL	S				FILL: Appears poorly compacted 'Uncontrolled'	
CI	FILL: Sandy CLAY; medium plasticity, fine to coarse sand, trace gravel, trace concrete, trace bricks, grey brown	0.5		S-F	D	3A			
CH	CLAY; high plasticity, trace sand, grey	1.0		F	D	3B		NATURAL	
CH	Silty CLAY; high plasticity, trace sand, yellow	1.5		St.	D	3C	1.5		
		2.0		F	D	3D	SPT 2, 2, 3 N = 5 1.95		
CH	Silty CLAY; high plasticity, trace sand, grey	2.5		St.	D	3E			
		3.0					3.0		
		3.5			D	3F	SPT 3, 4, 5 N = 9 3.45		
		4.0							
		4.5					4.5		
		5.0			D	3G	SPT 3, 5, 5 N = 10 4.95	Post drilling Seepage @ 4.9m	
		5.5							
SC	Clayey SAND; fine to medium grained, fines of medium plasticity, grey yellow	6.0	W	MD				Seepage @ 5.6m to 7.5m (EOBH) Piezo installed	

Registration No.: S22-348

Location: Geotechnical Desktop Study - Proposed Wentworth Health Service Redevelopment, 24 Hospital Road, Wentworth, NSW

Client: JBS&G - Sydney, NSW

Logged By: PFT

Scale: As shown

Seepage @ 5.6m to 7.5m (EOBH)

DRAFT

AITKEN ROWE TESTING LABORATORIES PTY LTD

Borehole No.: **3**
Sheet No.: 2 of 2

Ground Level: Existing
Method: Auger Drilling with TC Bit

Date: ***10/08/2022***
GPS N: ***6225245***
E: ***0585074***

USCS Symbol	Description	Depth (m)	Moisture Condition	Consistency/ Rel. Density	Sample Type	Sample No.	Field Test SPT	Remarks & Field Records
SC	Clayey SAND; fine to medium grained, fines of medium plasticity, grey yellow	6.5 7.0 7.5	W	M	D	3H	SPT 4, 4, 7 N = 11 6.45	
	End of Borehole (BH3) @ 7.5m	8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0						

DRAFT

Registration No.: S22-348

Location: Geotechnical Desktop Study - Proposed Wentworth Health Service Redevelopment, 24 Hospital Road, Wentworth, NSW

Client: JBS&G - Sydney, NSW

Logged By: PFT

Scale: As shown

Seepage @ 5.6m to 7.5m (EOBH)

AITKEN ROWE TESTING LABORATORIES PTY LTD

Borehole No.: **4**
Sheet No.: 1 of 2

Ground Level: Existing
Method: Auger Drilling with TC Bit

Date: ***10/08/2022***
GPS N: ***6225258***
E: ***0585050***

USCS Symbol	Description	Depth (m)	Moisture Condition	Consistency/ Rel. Density	Sample Type	Sample No.	Field Test SPT	Remarks & Field Records	Piezometer
ML	FILL/TOPSOIL: Sandy SILT; low plasticity, fine to coarse sand, grey		MC>PL	S				FILL: Appears poorly compacted 'Uncontrolled'	
ML	FILL: Sandy SILT; low plasticity, fine to coarse sand, trace gravel, orange brown	0.5		S-F					
CH	FILL: CLAY; high plasticity, with fine to ocarse sand, trace gravel, grey brown			St.	D	4A		FILL: Appears moderately compacted 'Uncontrolled'	
CH	CLAY; high plasticity, trace sand, grey	1.0			U50	4B		NATURAL	
CH	Silty CLAY; high plasticity, trace sand, yellow			F-St.					
		1.5					1.5		
					D	4C	SPT 3, 3, 5 N = 8		
		2.0					1.95		
		2.5							
		3.0					3.0		
CH	CLAY; high plasticity, trace sand, grey yellow				D	4D	SPT 3, 3, 4 N = 7	Post drilling Seepage @ 3.2m	
		3.5					3.45		
CH	CLAY; high plasticity, trace sand, grey orange			F					
		4.0							
		4.5					4.5		
SC	Clayey SAND; fine to medium grained, fines of medium plasticity, grey orange		W	L	D	4E	SPT 2, 2, 4 N = 6	Seepage @ 4.5m to 7.5m (EOBH)	
		5.0					4.95		
		5.5							
		6.0						Piezo installed	

Registration No.: S22-348

Location: Geotechnical Desktop Study - Proposed Wentworth Health Service Redevelopment, 24 Hospital Road, Wentworth, NSW

Client: JBS&G - Sydney, NSW

Logged By: PFT

Scale: As shown

Seepage @ 4.5m to 7.5m (EOBH)

DRAFT

AITKEN ROWE TESTING LABORATORIES PTY LTD

Borehole No.: **4**
Sheet No.: 2 of 2

Ground Level: Existing
Method: Auger Drilling with TC Bit

Date: ***10/08/2022***
GPS N: ***6225258***
E: ***0585050***

USCS Symbol	Description	Depth (m)	Moisture Condition	Consistency/ Rel. Density	Sample Type	Sample No.	Field Test SPT	Remarks & Field Records
SC	Clayey SAND; fine to medium grained, fines of medium plasticity, grey orange	6.5 7.0 7.5	W	MD	D	4F	SPT 5, 5, 6 N = 11 6.45	
	End of Borehole (BH4) @ 7.5m	8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0						

DRAFT

Registration No.: S22-348

Location: Geotechnical Desktop Study - Proposed Wentworth Health Service Redevelopment, 24 Hospital Road, Wentworth, NSW

Client: JBS&G - Sydney, NSW

Logged By: PFT

Scale: As shown

Seepage @ 4.5m to 7.5m (EOBH)

AITKEN ROWE TESTING LABORATORIES PTY LTD
LOG SYMBOLS

LOG COLUMN	SYMBOLS	DEFINITION
Groundwater Record	▼	Standing water level. Time delay following completion of drilling may be shown.
	▶—	Groundwater seepage into borehole or excavation noted during drilling or excavation.
Samples	D	Small disturbed bag sample taken between the depths indicated by lines.
	B	Bulk disturbed sample taken between the depths indicated by lines.
	U	Undisturbed 50mm diameter tube sample taken between the depths indicated by lines
Field Tests	N=17 4, 7, 10	Standard Penetration Test (S.P.T.) performed between depths indicated by lines. Individual figures show blows per 150mm penetration driven by SPT hammer.
	N_c 5 7 3	Dynamic Cone Penetration Test performed between depths indicated by lines. Individual figures show blows per 100mm penetration for 60 degree solid cone driven by 9 Kg hammer.
Moisture Condition (Clay or Silt based)	MC>PL	Moisture content estimated to be greater than plastic limit.
	MC=PL	Moisture content estimated to be approx. equal to plastic limit.
	MC<PL	Moisture content estimated to be less than plastic limit.
Moisture Condition (Gravel or Sand based)	D	DRY – runs freely through fingers.
	M	MOIST – does not run freely but no free water visible on soil surface.
	W	WET – free water visible on soil surface.
Consistency (Clay or Silt based)	VS	VERY SOFT – unconfined compressive strength less than 25kPa.
	S	SOFT – unconfined compressive strength 25-50 kPa.
	F	FIRM – unconfined compressive strength 50-100kPa.
	St.	STIFF – unconfined compressive strength 100-200kPa.
	VSt.	VERY STIFF – unconfined compressive strength 200 – 400kPa.
	H	HARD – unconfined compressive strength greater than 400kPa.

Relative Density (Gravel or Sand based)		Description	Density Index Range % S.P.T.	'N' Value Range Blows/300mm
	VL	VERY LOOSE	<15	0-4
	L	LOOSE	15-35	4-10
	MD	MEDIUM DENSE	35-65	10-30
	D	DENSE	65-85	30-50
	VD	VERY DENSE	>85	> 50

Hand Penetrometer Readings	300 250 280	Numbers indicate individual test results in kPa on representative undisturbed material unless noted otherwise.
Laboratory Test	L.S. %	Linear Shrinkage (As per RTA Method T113)
	M.C. %	Field Moisture Content (As per Australian Standard AS1289.2.1.1 or RTA Method T120)
	I_{ss}	Shrink-Swell Index (As per Australian Standard AS1289.7.1.1)
Remarks	'V' bit	Hardened steel 'V' shaped bit.
	'TC' bit	Tungsten Carbide wing bit.
	T^{60}	Penetration of auger string in mm under static load of rig rear axle without rotation of augers.

Piezometer Construction	Fill		Piezometer	
		Bentonite		Solid Pipe
		Washed Fine Graded Gravel		Slotted Screen

Appendix E Calibration and Decontamination Sheets

Multi Parameter Water Meter

Instrument YSI Quatro Pro Plus
Serial No. 18J104326

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. D.O		0 ppm		377403	0 ppm
2. Conductivity		2760uS		368682	2760uS
3. pH7		pH 7.00		381241	pH 7.00
4. pH4		pH 4.00		380327	pH 4.00
5. ORP mV		232.9		375760 / 374426	232.9
6. Temp °C		20.5		163377	20.5

Calibrated by: Sam Stevens

Calibration date: 2-Aug-22

Next calibration due: 29-Jan-23

PID Calibration Certificate

Instrument PhoCheck Tiger
Serial No. T-111098

airmet

Air-Met Scientific Pty Ltd
1300 137 067

Item	Test	Pass	Comments			
Battery	Charge Condition	✓				
	Fuses	✓				
	Capacity	✓				
	Recharge OK?	✓				
Switch/keypad	Operation	✓				
Display	Intensity	✓				
	Operation (segments)	✓				
Grill Filter	Condition	✓				
	Seal	✓				
Pump	Operation	✓				
	Filter	✓				
	Flow	✓				
	Valves, Diaphragm	✓				
PCB	Condition	✓				
Connectors	Condition	✓				
Sensor	PID	✓	10.6 ev			
Alarms	Beeper	✓	Low	High	TWA	STEL
	Settings	✓	50ppm	100ppm		
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:

Diffusion mode Aspirated mode

Sensor	Serial no	Calibration gas and concentration	Certified	Gas bottle No		Instrument Reading
PID Lamp		95ppm Isobutylene	NIST	ME846		95ppm Isobutylene

Calibrated by: Sam Stevens

Calibration date: 3/08/2022

Next calibration due: 30/01/2023

Oil / Water Interface Meter

Instrument **Geotech Interface Meter (30M)**
Serial No. **4022**

airmet
Air-Met Scientific Pty Ltd
1300 137 067

Item	Test	Pass	Comments
Battery	Compartment	✓	
	Capacity	✓	
	above 7.9v	✓	
Probe	Cleaned/Decon.	✓	
	Operation	✓	
Connectors	Condition	✓	
		✓	
Tape Check	Cleaned	✓	
Connectors	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: **Frank Team**

Calibration date: **03-Aug-22**

Next calibration due: **30-Jan-23**

JBS&G

Field Equipment Calibration and Decontamination

PROJECT NAME:	Wentworth H.S.	**PROJECT NO:**	63087
FIELDWORK DATES:	9-12/8/22	**SAMPLERS:**	GP
TYPE OF INVESTIGATION:	TP, + GME + HAs, S.S.	**PROJECT MANAGER:**	GP

CALIBRATION SUMMARY

EQUIPMENT:	PID, WQM - YSI probe
CALIBRATION STANDARD:	Airmet calibrated (see calibration forms provided by Airmet)

DATE	TIME	READING (ppm)	COMMENTS

DECONTAMINATION SUMMARY

EQUIPMENT: H.A., I.P., hand trowel

1	Was the equipment decontaminated appropriately prior to sampling at each location?	Y	N	NA
2	Was excess soil removed by scraping, brushing or wiping with disposable towels?	Y	N	NA
3	Was the equipment contaminated with grease, tar or similar material?	Y	N	NA
	If so, was the equipment steam cleaned or rinsed with pesticide-grade acetone:hexane?	Y	N	NA
4	Was phosphate-free detergent used to wash the equipment?	Y	N	NA
5	Was the equipment rinsed with clean water?	Y	N	NA
6	Was the equipment then rinsed with deionised water?	Y	N	NA
7	Were all sample containers cleaned and acid or solvent washed prior to sample collection?	Y	N	NA

-lab provided

WERE ANY ADDITIONAL DECONTAMINATION MEASURES REQUIRED? PROVIDE DETAILS

- Fresh gloves used at each sample location.
- TP samples taken from centre of excavator bucket

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Appendix F QA/QC Summary

QAQC Field Duplicate RPDs
Project Number: 63097
Project Name: Wentworth Health Services Redevelopment

Field Duplicates (soil)
Filter: SDG in('914805')

			SDG	914805	914805		914805	914805		914805	914805		914805	ENVIROLAB 2022-08-18T00:00:00		914805	ENVIROLAB 2022-08-18T00:00:00		914805	ENVIROLAB 2022-08-18T00:00:00	
			Field ID	TP06-0-0.1	QC20220809-01	RPD	TP24-0-0.1	QC20220810-01	RPD	HA50-0-0.1	QC20220811-01	RPD	TP06-0-0.1	QA202200809-01	RPD	TP24-0-0.1	QA202200810-01	RPD	HA50-0-0.1	QA202200811-01	RPD
			Sampled Date/Time	9/08/2022	9/08/2022		10/08/2022	10/08/2022		11/08/2022	11/08/2022		9/08/2022	9/08/2022		10/08/2022	10/08/2022		11/08/2022	11/08/2022	
Chem_Group	**ChemName**	**Units**	**EQL**																		
Metals & Metalloids	Arsenic	mg/kg	2 : 4 (Interlab)				<2	<2	0	3.4	2.9	16				<2	<4	0	3.4	<4	0
	Cadmium	mg/kg	0.4				<0.4	<0.4	0	<0.4	<0.4	0				<0.4	<0.4	0	<0.4	<0.4	0
	Chromium (III+VI)	mg/kg	5 : 1 (Interlab)				**9.9**	**15**	**41**	20	19	5				**9.9**	**6**	**49**	**20**	**11**	**58**
	Copper	mg/kg	5 : 1 (Interlab)				**15**	**81**	**138**	26	23	12				**15**	**27**	**57**	26	27	4
	Lead	mg/kg	5 : 1 (Interlab)				**7.6**	**15**	**65**	24	22	9				**7.6**	**11**	**37**	24	23	4
	Mercury	mg/kg	0.1				**<0.1**	**0.3**	**100**	**0.2**	**0.1**	**67**				<0.1	0.1	0	**0.2**	**0.3**	**40**
	Nickel	mg/kg	5 : 1 (Interlab)				6.3	7.2	13	12	11	9				6.3	6	5	12	9	29
	Zinc	mg/kg	5 : 1 (Interlab)				**44**	**66**	**40**	130	110	17				44	49	11	130	100	26
etalloids																					
TPHs (NEPC 1999)	C6-C9 Fraction	mg/kg	20 : 25 (Interlab)				<20	<20	0							<20	<25	0			
	C10-C14 Fraction	mg/kg	20 : 50 (Interlab)				**22**	**30**	**31**							22	<50	0			
	C15-C28 Fraction	mg/kg	50 : 100 (Interlab)				**390**	**690**	**56**							390	450	14			
	C29-C36 Fraction	mg/kg	50 : 100 (Interlab)				**300**	**570**	**62**							300	350	15			
	C10-C36 Fraction (Sum of Total)	mg/kg	50				**712**	**1290**	**58**							712	810	13			
1999)																					
TRHs (NEPC 2013)	C6-C10	mg/kg	20 : 25 (Interlab)				<20	<20	0							<20	<25	0			
	C10-C16	mg/kg	50				**65**	**120**	**59**							**65**	**130**	**67**			
	C16-C34	mg/kg	100				**750**	**1300**	**54**							750	640	16			
	C34-C40	mg/kg	100				**250**	**450**	**57**							250	250	0			
	C10-C40 (Sum of total)	mg/kg	100 : 50 (Interlab)				**1065**	**1870**	**55**							1065	1000	6			
	F1 (C6-C10 minus BTEX)	mg/kg	20 : 25 (Interlab)				<20	<20	0							<20	<25	0			
	F2 (C10-C16 less Naphthalene)	mg/kg	50				**65**	**120**	**59**							**65**	**130**	**67**			
2013)																					
BTEXN	Benzene	mg/kg	0.1 : 0.2 (Interlab)				<0.1	<0.1	0	<0.1	<0.1	0				<0.1	<0.2	0	<0.1	<0.2	0
	Toluene	mg/kg	0.1 : 0.5 (Interlab)				<0.1	<0.1	0	<0.1	<0.1	0				<0.1	<0.5	0	<0.1	<0.5	0
	Ethylbenzene	mg/kg	0.1 : 1 (Interlab)				<0.1	<0.1	0	<0.1	<0.1	0				<0.1	<1	0	<0.1	<1	0
	Xylene (o)	mg/kg	0.1 : 1 (Interlab)				<0.1	<0.1	0	<0.1	<0.1	0				<0.1	<1	0	<0.1	<1	0
	Xylene (m & p)	mg/kg	0.2 : 2 (Interlab)				<0.2	<0.2	0	<0.2	<0.2	0				<0.2	<2	0	<0.2	<2	0
	Xylene Total	mg/kg	0.3 : 1 (Interlab)				<0.3	<0.3	0							<0.3	<1	0			
	Xylene Total	mg/kg	0.3							<0.3	<0.3	0							<0.3		
PAH	Acenaphthene	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.1	0	<0.5	<0.1	0
	Acenaphthylene	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.1	0	<0.5	<0.1	0
	Anthracene	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.1	0	<0.5	<0.1	0
	Benz(a)anthracene	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.1	0	<0.5	<0.1	0
	Benzo(a)pyrene	mg/kg	0.5 : 0.05 (Interlab)				<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.05	0	<0.5	<0.05	0
	Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5				1.2	1.2	0	1.2	1.2	0				**1.2**	**<0.5**	**82**	**1.2**	**<0.5**	**82**
	Benzo(a)pyrene TEQ calc (Half)	mg/kg	0.5				0.6	0.6	0	0.6	0.6	0				0.6	<0.5	18	0.6	<0.5	18
	Benzo(a)pyrene TEQ calc (Zero)	mg/kg	0.5				<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0
	Benzo(b+j)fluoranthene	mg/kg	0.5				<0.5	<0.5	0	<0.5	<0.5	0				<0.5			<0.5		
	Benzo(g,h,i)perylene	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.1	0	<0.5	<0.1	0
	Benzo(k)fluoranthene	mg/kg	0.5				<0.5	<0.5	0	<0.5	<0.5	0				<0.5			<0.5		
	Chrysene	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.1	0	<0.5	<0.1	0
	Dibenz(a,h)anthracene	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.1	0	<0.5	<0.1	0
	Fluoranthene	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.1	0	<0.5	<0.1	0
	Fluorene	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.1	0	<0.5	<0.1	0
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.1	0	<0.5	<0.1	0
	Naphthalene	mg/kg	0.5 : 1 (Interlab)				<0.5	<0.5	0							<0.5	<0.1	0			
	Naphthalene	mg/kg	0.5 : 1 (Interlab)				<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.1	0	<0.5	<0.1	0
	Phenanthrene	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.1	0	<0.5	<0.1	0
	Pyrene	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.1	0	<0.5	<0.1	0
	PAHs (Sum of total)	mg/kg	0.5 : 0.05 (Interlab)				<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.05	0	<0.5	<0.05	0
Organochlorine Pesticides	4,4-DDE	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	a-BHC	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	b-BHC	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	d-BHC	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	g-BHC (Lindane)	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	Aldrin	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	Dieldrin	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	Aldrin + Dieldrin	mg/kg	0.05	<0.05	<0.05	0				<0.05	<0.05	0	<0.05						<0.05		
	Chlordane	mg/kg	0.1	<0.1	<0.1	0				<0.1	<0.1	0	<0.1						<0.1		
	DDT	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	DDD	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	DDT+DDE+DDD	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	Endosulfan I	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	Endosulfan II	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	Endosulfan sulphate	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	Endrin	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	Endrin aldehyde	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	Endrin ketone	mg/kg	0.05	<0.05	<0.05	0				<0.05	<0.05	0	<0.05						<0.05		
	Heptachlor	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	Heptachlor Epoxide	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	Methoxychlor	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	Toxaphene	mg/kg	0.5	<0.5	<0.5	0				<0.5	<0.5	0	<0.5						<0.5		
ine Pesticides																					
Chlorinated Alkanes	1,1,1,2-tetrachloroethane	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	1,1,1-trichloroethane	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	1,1,2,2-tetrachloroethane	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	1,1,2-trichloroethane	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	1,1-dichloroethane	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	1,2,3-trichloropropane	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	1,2-dichloroethane	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	1,2-dichloropropane	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	1,3-dichloropropane	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	Bromochloromethane	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	Carbon tetrachloride	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	Chloroethane	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0

QAQC Field Duplicate RPDs
Project Number: 63097
Project Name: Wentworth Health Services Redevelopment

Field Duplicates (soil)
Filter: SDG in('914805')

			SDG	914805	914805		914805	914805		914805	914805		914805	ENVIROLAB 2022-08-18T00:00:00		914805	ENVIROLAB 2022-08-18T00:00:00		914805	ENVIROLAB 2022-08-18T00:00:00	
			Field ID	TP06-0-0.1	QC20220809-01	**RPD**	TP24-0-0.1	QC20220810-01	**RPD**	HA50-0-0.1	QC20220811-01	**RPD**	TP06-0-0.1	QA202200809-01	**RPD**	TP24-0-0.1	QA202200810-01	**RPD**	HA50-0-0.1	QA202200811-01	**RPD**
			Sampled Date/Time	9/08/2022	9/08/2022		10/08/2022	10/08/2022		11/08/2022	11/08/2022		9/08/2022	9/08/2022		10/08/2022	10/08/2022		11/08/2022	11/08/2022	
	Chloromethane	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	Dichlorodifluoromethane	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	Dichloromethane	mg/kg	0.5							<0.5	<0.5	0							<0.5		
	Trichlorofluoromethane	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
Alkanes																					
Chlorinated Alkenes	1,1-dichloroethene	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	3-chloropropene	mg/kg	0.5							<0.5	<0.5	0							<0.5		
	4-chlorotoluene	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	cis-1,2-dichloroethene	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	cis-1,3-dichloropropene	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	Tetrachloroethene	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	trans-1,2-dichloroethene	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	trans-1,3-dichloropropene	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	Trichloroethene	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	Vinyl Chloride	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
Alkenes																					
Solvents	Acetone	mg/kg	0.5							<0.5	<0.5	0							<0.5		
Polychlorinated Biphenyls	Arochlor 1016	mg/kg	0.1	<0.1	<0.1	0				<0.1	<0.1	0	<0.1	<0.1	0				<0.1	<0.1	0
	Arochlor 1221	mg/kg	0.1	<0.1	<0.1	0				<0.1	<0.1	0	<0.1	<0.1	0				<0.1	<0.1	0
	Arochlor 1232	mg/kg	0.1	<0.1	<0.1	0				<0.1	<0.1	0	<0.1	<0.1	0				<0.1	<0.1	0
	Arochlor 1242	mg/kg	0.1	<0.1	<0.1	0				<0.1	<0.1	0	<0.1	<0.1	0				<0.1	<0.1	0
	Arochlor 1248	mg/kg	0.1	<0.1	<0.1	0				<0.1	<0.1	0	<0.1	<0.1	0				<0.1	<0.1	0
	Arochlor 1254	mg/kg	0.1	<0.1	<0.1	0				<0.1	<0.1	0	<0.1	<0.1	0				<0.1	<0.1	0
	Arochlor 1260	mg/kg	0.1	<0.1	<0.1	0				<0.1	<0.1	0	<0.1	<0.1	0				<0.1	<0.1	0
	PCBs (Sum of total)	mg/kg	0.1	<0.1	<0.1	0				<0.1	<0.1	0	<0.1	<0.1	0				<0.1	<0.1	0
ted Biphenyls																					
MAH	1,2,4-trimethylbenzene	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	1,3,5-trimethylbenzene	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	Styrene	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	Total MAH	mg/kg	0.5							<0.5	<0.5	0							<0.5		
	Bromobenzene	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	Isopropylbenzene	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
Miscellaneous Hydrocarbons	1,2-dibromoethane	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	Bromomethane	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	Dibromomethane	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	Iodomethane	mg/kg	0.5							<0.5	<0.5	0							<0.5		
	4-Methyl-2-pentanone	mg/kg	0.5							<0.5	<0.5	0							<0.5		
	Methyl Ethyl Ketone	mg/kg	0.5							<0.5	<0.5	0							<0.5		
us Hydrocarbons																					
Chlorinated Benzenes	1,2-Dichlorobenzene	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	1,3-dichlorobenzene	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	1,4-dichlorobenzene	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	Chlorobenzene	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	Hexachlorobenzene	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
Benzenes																					
Trihalomethanes	Dibromochloromethane	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	Chloroform	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	Tribromomethane	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
	Bromodichloromethane	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0							<0.5	<1	0
anes																					
Organic Sulfur Compounds	Carbon disulfide	mg/kg	0.5							<0.5	<0.5	0							<0.5		
ur Compounds																					
EPA VIC - IWRG621	Chlorinated Hydrocarbons EPAVic	mg/kg	0.5							<0.5	<0.5	0							<0.5		
	Other Chlorinated Hydrocarbons EPAVic	mg/kg	0.5							<0.5	<0.5	0							<0.5		
	Organochlorine Pesticides EPAVic	mg/kg	0.1	<0.1	<0.1	0				<0.1	<0.1	0	<0.1						<0.1		
	Other Organochlorine Pesticides EPAVic	mg/kg	0.1	<0.1	<0.1	0				<0.1	<0.1	0	<0.1						<0.1		
RG621																					
Asbestos - Eurofins	Approximate Sample Mass	g		657	661	1	704	813	14	589	605	3	657			704			589		
	Mass ACM	g		0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0			0.0E0			0.0E0		
	Mass Asbestos in ACM	g		0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0			0.0E0			0.0E0		
	Asbestos from ACM in Soil	% (w/w)		0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0			0.0E0			0.0E0		
	Mass FA	g		0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0			0.0E0			0.0E0		
	Mass Asbestos in FA	g		0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0			0.0E0			0.0E0		
	Mass AF	g		0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0			0.0E0			0.0E0		
	Mass asbestos in AF	g		0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0			0.0E0			0.0E0		
	Asbestos from FA & AF in Soil	% (w/w)		0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0			0.0E0			0.0E0		
	Mass Asbestos in FA & AF	g		0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0			0.0E0			0.0E0		
	ACM - Comment	Comment		1	1	0	1	1	0	1	1	0	1			1			1		
	FA- Comment	Comment		1	1	0	1	1	0	1	1	0	1			1			1		
	AF - Comment	Comment		1	1	0	1	1	0	1	1	0	1			1			1		
	Organic Fibres - Comment	Comment		1	1	0	1	1	0	1	1	0	1			1			1		
	Respirable Fibres - Comment	Comment		1	1	0	1	1	0	1	1	0	1			1			1		
	Synthetic Fibres - Comment	Comment		1	1	0	1	1	0	1	1	0	1			1			1		
	Asbestos Reported Result	Comment		1	1	0	1	1	0	1	1	0	1			1			1		
urofins																					
Other	Moisture Content (dried @ 103°C)	%	1	15	16	6	9.2	8.8	4	11	8.5	26	15			9.2			11		

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 30 (1-10 x EQL); 30 (10-30 x EQL); 30 (> 30 x EQL))
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

QAQC Field Duplicate RPDs
Project Number: 63097
Project Name: Wentworth Health Services Redevelopment

Field Duplicates (water)
Filter: SDG in('914805')

			SDG	914805	914805		914805	ENVIROLAB 2022-08-18T00:00:00	
			Field ID	MW03	QC-MW	**RPD**	MW03	QA-MW	**RPD**
			Sampled Date/Time	11/08/2022	11/08/2022		11/08/2022	11/08/2022	
Chem_Group	**ChemName**	**Units**	**EQL**						
Metals & Metalloids	Arsenic (Filtered)	mg/l	0.001	0.024	0.023	4	0.024	0.025	4
	Cadmium (Filtered)	mg/l	0.0002 : 0.0001 (Interlab)	<0.0002	<0.0002	0	<0.0002	<0.0001	0
	Chromium (III+VI) (Filtered)	mg/l	0.001	0.001	<0.001	0	**0.001**	**0.002**	**67**
	Copper (Filtered)	mg/l	0.001	**0.015**	**0.004**	**116**	**0.015**	**0.006**	**86**
	Lead (Filtered)	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Mercury (Filtered)	mg/l	0.0001 : 5e-005 (Interlab)	<0.0001	<0.0001	0	<0.0001	<0.00005	0
	Nickel (Filtered)	mg/l	0.001	**0.002**	**0.001**	**67**	**0.002**	**0.001**	**67**
	Zinc (Filtered)	mg/l	0.005 : 0.001 (Interlab)	**0.008**	**0.018**	**77**	0.008	0.008	0
etalloids									
TPHs (NEPC 1999)	C6-C9 Fraction	mg/l	0.02 : 0.01 (Interlab)	<0.02	<0.02	0	<0.02	<0.01	0
	C10-C14 Fraction	mg/l	0.05	<0.05	<0.05	0	<0.05	<0.05	0
	C15-C28 Fraction	mg/l	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	C29-C36 Fraction	mg/l	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	C10-C36 Fraction (Sum of Total)	mg/l	0.1 : 0.05 (Interlab)	<0.1	<0.1	0	<0.1	<0.05	0
1999)									
TRHs (NEPC 2013)	C6-C10	mg/l	0.02 : 0.01 (Interlab)	<0.02	<0.02	0	<0.02	<0.01	0
	C10-C16	mg/l	0.05	<0.05	<0.05	0	**<0.05**	**0.071**	**35**
	C16-C34	mg/l	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	C34-C40	mg/l	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	C10-C40 (Sum of total)	mg/l	0.1 : 0.05 (Interlab)	<0.1	<0.1	0	<0.1	0.07	0
	F1 (C6-C10 minus BTEX)	mg/l	0.02 : 0.01 (Interlab)	<0.02	<0.02	0	<0.02	<0.01	0
	F2 (C10-C16 less Naphthalene)	mg/l	0.05	<0.05	<0.05	0	**<0.05**	**0.071**	**35**
2013)									
BTEXN	Benzene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Toluene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Ethylbenzene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Xylene (o)	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Xylene (m & p)	mg/l	0.002	<0.002	<0.002	0	<0.002	<0.002	0
	Xylene Total	mg/l	0.003	<0.003	<0.003	0	<0.003		
PAH	Acenaphthene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Acenaphthylene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Anthracene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Benz(a)anthracene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Benzo(a)pyrene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Benzo(b+j)fluoranthene	mg/l	0.001	<0.001	<0.001	0	<0.001		
	Benzo(g,h,i)perylene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Benzo(k)fluoranthene	mg/l	0.001	<0.001	<0.001	0	<0.001		
	Chrysene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Dibenz(a,h)anthracene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Fluoranthene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Fluorene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Indeno(1,2,3-c,d)pyrene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Naphthalene	mg/l	0.01 : 0.001 (Interlab)	<0.01	<0.01	0	<0.01	<0.001	0
	Naphthalene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Phenanthrene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Pyrene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	PAHs (Sum of total)	mg/l	0.001	<0.001	<0.001	0	<0.001	0.0E0	0
Chlorinated Alkanes	1,1,1,2-tetrachloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,1,1-trichloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,1,2,2-tetrachloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,1,2-trichloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,1-dichloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,2,3-trichloropropane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,2-dichloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,2-dichloropropane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,3-dichloropropane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Bromochloromethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Carbon tetrachloride	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Chloroethane	mg/l	0.005 : 0.01 (Interlab)	<0.005	<0.005	0	<0.005	<0.01	0
	Chloromethane	mg/l	0.005 : 0.01 (Interlab)	<0.005	<0.005	0	<0.005	<0.01	0
	Dichlorodifluoromethane	mg/l	0.005 : 0.01 (Interlab)	<0.005	<0.005	0	<0.005	<0.01	0
	Dichloromethane	mg/l	0.005	<0.005	<0.005	0	<0.005		
	Trichlorofluoromethane	mg/l	0.005 : 0.01 (Interlab)	<0.005	<0.005	0	<0.005	<0.01	0
Alkanes									
Chlorinated Alkenes	1,1-dichloroethene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	3-chloropropene	mg/l	0.001	<0.001	<0.001	0	<0.001		
	4-chlorotoluene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	cis-1,2-dichloroethene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	cis-1,3-dichloropropene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Tetrachloroethene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	trans-1,2-dichloroethene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	trans-1,3-dichloropropene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Trichloroethene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Vinyl Chloride	mg/l	0.005 : 0.01 (Interlab)	<0.005	<0.005	0	<0.005	<0.01	0
Alkenes									
Solvents	Acetone	mg/l	0.005	<0.005	<0.005	0	<0.005		

QAQC Field Duplicate RPDs
Project Number: 63097
Project Name: Wentworth Health Services Redevelopment

Field Duplicates (water)
Filter: SDG in('914805')

			SDG	914805	914805		914805	ENVIROLAB 2022-08-18T00:00:00	
			Field ID	MW03	QC-MW	**RPD**	MW03	QA-MW	**RPD**
			Sampled Date/Time	11/08/2022	11/08/2022		11/08/2022	11/08/2022	
PFAS	Perfluorobutanoic acid (PFBA)	µg/L	0.05 : 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0
	Perfluoropentanoic acid (PFPeA)	µg/L	0.01 : 0.02 (Interlab)	<0.01	<0.01	0	<0.01	<0.02	0
	Perfluorohexanoic acid (PFHxA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	Perfluorooctanoic acid (PFOA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	Perfluorodecanoic acid (PFDA)	µg/L	0.01 : 0.02 (Interlab)	<0.01	<0.01	0	<0.01	<0.02	0
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01 : 0.02 (Interlab)	<0.01	<0.01	0	<0.01	<0.02	0
	Perfluorododecanoic acid (PFDoDA)	µg/L	0.01 : 0.05 (Interlab)	<0.01	<0.01	0	<0.01	<0.05	0
	Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01 : 0.1 (Interlab)	<0.01	<0.01	0	<0.01	<0.1	0
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01 : 0.5 (Interlab)	<0.01	<0.01	0	<0.01	<0.5	0
	Perfluorooctane sulfonamide (FOSA)	µg/L	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.1	0
	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	µg/L	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.1	0
	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	µg/L	0.05 : 0.5 (Interlab)	<0.05	<0.05	0	<0.05	<0.5	0
	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	µg/L	0.05 : 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0
	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	µg/L	0.05 : 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0
	Perfluoropropanesulfonic acid (PFPrS)	µg/L	0.01	<0.01	<0.01	0	<0.01		
	Perfluorobutanesulfonic acid (PFBS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	Perfluoropentanesulfonic acid (PFPeS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	Perfluorohexanesulfonic acid (PFHxS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	Perfluorooctanesulfonic acid (PFOS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	Perfluorononanesulfonic acid (PFNS)	µg/L	0.01	<0.01	<0.01	0	<0.01		
	Perfluorodecanesulfonic acid (PFDS)	µg/L	0.01 : 0.02 (Interlab)	<0.01	<0.01	0	<0.01	<0.02	0
	1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	µg/L	0.05 : 0.01 (Interlab)	<0.05	<0.05	0	<0.05	<0.01	0
	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	µg/L	0.01 : 0.02 (Interlab)	<0.01	<0.01	0	<0.01	<0.02	0
	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	µg/L	0.01 : 0.02 (Interlab)	<0.01	<0.01	0	<0.01	<0.02	0
	Sum of PFHxS and PFOS	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	µg/L	0.01	<0.01	<0.01	0	<0.01		
	Sum of US EPA PFAS (PFOS + PFOA)*	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	Sum of WA DWER PFAS (n=10)*	UG/L	0.05	<0.05	<0.05	0	<0.05		
	Sum of PFAS	µg/L	0.1 : 0.01 (Interlab)	<0.1	<0.1	0	<0.1	<0.01	0
MAH	1,2,4-trimethylbenzene	mg/l	0.001	<0.001	<0.001	0	<0.001		
	1,3,5-trimethylbenzene	mg/l	0.001	<0.001	<0.001	0	<0.001		
	Styrene	mg/l	0.001	<0.001	<0.001	0	<0.001		
	Total MAH	mg/l	0.003	<0.003	<0.003	0	<0.003		
	Bromobenzene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Isopropylbenzene	mg/l	0.001	<0.001	<0.001	0	<0.001		
Miscellaneous Hydrocarbons	1,2-dibromoethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Bromomethane	mg/l	0.005 : 0.01 (Interlab)	<0.005	<0.005	0	<0.005	<0.01	0
	Dibromomethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Iodomethane	mg/l	0.001	<0.001	<0.001	0	<0.001		
	4-Methyl-2-pentanone	mg/l	0.005	<0.005	<0.005	0	<0.005		
	Methyl Ethyl Ketone	mg/l	0.005	<0.005	<0.005	0	<0.005		
us Hydrocarbons									
Chlorinated Benzenes	1,2-Dichlorobenzene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,3-dichlorobenzene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,4-dichlorobenzene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Chlorobenzene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
Benzenes									
Trihalomethanes	Dibromochloromethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Chloroform	mg/l	0.005 : 0.001 (Interlab)	<0.005	<0.005	0	<0.005	<0.001	0
	Tribromomethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Bromodichloromethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
anes									
Organic Sulfur Compounds	Carbon disulfide	mg/l	0.001	<0.001	<0.001	0	<0.001		
ur Compounds									
Major Cations	Calcium	mg/l	0.5	14	15	7	14		
	Magnesium	mg/l	0.5	19	20	5	19		
ns									
Ionic Balance	Electrical Conductivity (Lab)	µS/cm	10	2400	2600	8	2400		
	Hardness as CaCO3	mg/l	1	110	120	9	110		
	pH (Lab)	PH UNITS	0.1	8.4	8	5	8.4	8.2	2
e									
EPA VIC - IWRG621	Chlorinated Hydrocarbons EPAVic	mg/l	0.005	<0.005	<0.005	0	<0.005		
	Other Chlorinated Hydrocarbons EPAVic	mg/l	0.005	<0.005	<0.005	0	<0.005		
RG621									
Other	TDS	mg/l	10 : 5 (Interlab)	3400	3400	0	3400	3200	6

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 30 (1-10 x EQL); 30 (10-30 x EQL); 30 (> 30 x EQL)]
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

QAQC Field Blanks
Project Number: 63097
Project Name: Wentworth Health Services Redevelopment

Field Blanks (water)
Filter: SDG in('914805')

			SDG	914805	914805	914805
			Field ID	BLANK	RIN20220811-W	RIN20220811-S
			Sampled_Date/Time	12/08/2022	11/08/2022	11/08/2022
			Sample Type	Field_B	Rinsate	Rinsate
Chem_Group	**ChemName**	**Units**	**EQL**			
BTEXN	Benzene	mg/l	0.001		<0.001	<0.001
	Toluene	mg/l	0.001		<0.001	<0.001
	Ethylbenzene	mg/l	0.001		<0.001	<0.001
	Xylene (o)	mg/l	0.001		<0.001	<0.001
	Xylene (m & p)	mg/L	0.002		<0.002	<0.002
	Xylene Total	mg/l	0.003		<0.003	<0.003
Chlorinated Alkanes	1,1,1,2-tetrachloroethane	mg/l	0.001		<0.001	<0.001
	1,1,1-trichloroethane	mg/l	0.001		<0.001	<0.001
	1,1,2,2-tetrachloroethane	mg/l	0.001		<0.001	<0.001
	1,1,2-trichloroethane	mg/l	0.001		<0.001	<0.001
	1,1-dichloroethane	mg/l	0.001		<0.001	<0.001
	1,2,3-trichloropropane	mg/l	0.001		<0.001	<0.001
	1,2-dichloroethane	mg/L	0.001		<0.001	<0.001
	1,2-dichloropropane	mg/l	0.001		<0.001	<0.001
	1,3-dichloropropane	mg/l	0.001		<0.001	<0.001
	Bromochloromethane	mg/l	0.001		<0.001	<0.001
	Carbon tetrachloride	mg/l	0.001		<0.001	<0.001
	Chloroethane	mg/l	0.005		<0.005	<0.005
	Chloromethane	mg/l	0.005		<0.005	<0.005
	Dichlorodifluoromethane	mg/l	0.005		<0.005	<0.005
	Dichloromethane	mg/l	0.005		<0.005	<0.005
	Trichlorofluoromethane	mg/l	0.005		<0.005	<0.005
Chlorinated Alkenes	1,1-dichloroethene	mg/l	0.001		<0.001	<0.001
	3-chloropropene	mg/l	0.001		<0.001	<0.001
	4-chlorotoluene	mg/l	0.001		<0.001	<0.001
	cis-1,2-dichloroethene	mg/l	0.001		<0.001	<0.001
	cis-1,3-dichloropropene	mg/l	0.001		<0.001	<0.001
	Tetrachloroethene	mg/l	0.001		<0.001	<0.001
	trans-1,2-dichloroethene	mg/l	0.001		<0.001	<0.001
	trans-1,3-dichloropropene	mg/l	0.001		<0.001	<0.001
	Trichloroethene	mg/l	0.001		<0.001	<0.001
	Vinyl Chloride	mg/l	0.005		<0.005	<0.005
Chlorinated Benzenes	1,2-Dichlorobenzene	mg/l	0.001		<0.001	<0.001
	1,3-dichlorobenzene	mg/l	0.001		<0.001	<0.001
	1,4-dichlorobenzene	mg/l	0.001		<0.001	<0.001
	Chlorobenzene	mg/l	0.001		<0.001	<0.001
	Hexachlorobenzene	mg/l	0.0002		<0.0002	
EPA VIC - IWRG621	Chlorinated Hydrocarbons EPAVic	mg/l	0.005		<0.005	<0.005
	Other Chlorinated Hydrocarbons EPAVic	mg/l	0.005		<0.005	<0.005
	Organochlorine Pesticides EPAVic	mg/l	0.002		<0.002	
	Other Organochlorine Pesticides EPAVic	mg/l	0.002		<0.002	
Ionic Balance	Electrical Conductivity (Lab)	µS/cm	10			
	Hardness as CaCO3	mg/l	1			
	pH (Lab)	PH UNITS	0.1			
MAH	1,2,4-trimethylbenzene	mg/l	0.001		<0.001	<0.001
	1,3,5-trimethylbenzene	mg/l	0.001		<0.001	<0.001
	Styrene	mg/l	0.001		<0.001	<0.001
	Total MAH	mg/l	0.003		<0.003	<0.003
	Bromobenzene	mg/l	0.001		<0.001	<0.001
	Isopropylbenzene	mg/l	0.001		<0.001	<0.001
Major Cations	Calcium	mg/L	0.5			
	Magnesium	mg/L	0.5			
Metals & Metalloids	Arsenic	mg/l	0.001		<0.001	<0.001
	Arsenic (Filtered)	mg/L	0.001			
	Cadmium	mg/l	0.0002		<0.0002	<0.0002
	Cadmium (Filtered)	mg/l	0.0002			
	Chromium (III+VI)	mg/l	0.001		<0.001	<0.001
	Chromium (III+VI) (Filtered)	mg/L	0.001			
	Copper	mg/L	0.001		<0.001	<0.001
	Copper (Filtered)	mg/l	0.001			
	Lead	mg/l	0.001		<0.001	<0.001
	Lead (Filtered)	mg/L	0.001			
	Mercury	mg/l	0.0001		<0.0001	<0.0001
	Mercury (Filtered)	mg/l	0.0001			
	Nickel	mg/l	0.001		<0.001	<0.001
	Nickel (Filtered)	mg/L	0.001			
	Zinc	mg/l	0.005		<0.005	<0.005
	Zinc (Filtered)	mg/l	0.005			
Miscellaneous Hydrocarbons	1,2-dibromoethane	mg/l	0.001		<0.001	<0.001
	Bromomethane	mg/l	0.005		<0.005	<0.005
	Dibromomethane	mg/l	0.001		<0.001	<0.001
	Iodomethane	mg/l	0.001		<0.001	<0.001
	4-Methyl-2-pentanone	mg/l	0.005		<0.005	<0.005
	Methyl Ethyl Ketone	mg/l	0.005		<0.005	<0.005
Organic Sulfur Compounds	Carbon disulfide	mg/l	0.001		<0.001	<0.001
Organochlorine Pesticides	4,4-DDE	mg/l	0.0002		<0.0002	
	a-BHC	mg/L	0.0002		<0.0002	
	b-BHC	mg/l	0.0002		<0.0002	
	d-BHC	mg/l	0.0002		<0.0002	
	g-BHC (Lindane)	mg/l	0.0002		<0.0002	
	Aldrin	mg/l	0.0002		<0.0002	
	Dieldrin	mg/l	0.0002		<0.0002	
	Aldrin + Dieldrin	mg/l	0.0002		<0.0002	
	Chlordane	mg/l	0.002		<0.002	
	DDT	mg/l	0.0002		<0.0002	
	DDD	mg/L	0.0002		<0.0002	
	DDT+DDE+DDD	mg/l	0.0002		<0.0002	
	Endosulfan I	mg/l	0.0002		<0.0002	
	Endosulfan II	mg/l	0.0002		<0.0002	
	Endosulfan sulphate	mg/l	0.0002		<0.0002	
	Endrin	mg/l	0.0002		<0.0002	
	Endrin aldehyde	mg/l	0.0002		<0.0002	
	Endrin ketone	mg/l	0.0002		<0.0002	
	Heptachlor	mg/l	0.0002		<0.0002	
	Heptachlor Epoxide	mg/l	0.0002		<0.0002	
	Methoxychlor	mg/l	0.0002		<0.0002	
	Toxaphene	mg/l	0.005		<0.005	
Other	TDS	mg/l	10			

QAQC Field Blanks
Project Number: 63097
Project Name: Wentworth Health Services Redevelopment

Field Blanks (water)
Filter: SDG in('914805')

			SDG	914805	914805	914805
			Field ID	BLANK	RIN20220811-W	RIN20220811-S
			Sampled_Date/Time	12/08/2022	11/08/2022	11/08/2022
			Sample Type	Field_B	Rinsate	Rinsate
PAH	Acenaphthene	mg/l	0.001		<0.001	<0.001
	Acenaphthylene	mg/l	0.001		<0.001	<0.001
	Anthracene	mg/l	0.001		<0.001	<0.001
	Benz(a)anthracene	mg/l	0.001		<0.001	<0.001
	Benzo(a)pyrene	mg/l	0.001		<0.001	<0.001
	Benzo(b+j)fluoranthene	mg/l	0.001		<0.001	<0.001
	Benzo(g,h,i)perylene	mg/l	0.001		<0.001	<0.001
	Benzo(k)fluoranthene	mg/l	0.001		<0.001	<0.001
	Chrysene	mg/l	0.001		<0.001	<0.001
	Dibenz(a,h)anthracene	mg/l	0.001		<0.001	<0.001
	Fluoranthene	mg/l	0.001		<0.001	<0.001
	Fluorene	mg/l	0.001		<0.001	<0.001
	Indeno(1,2,3-c,d)pyrene	mg/l	0.001		<0.001	<0.001
	Naphthalene	mg/l	0.001		<0.01	<0.01
	Phenanthrene	mg/l	0.001		<0.001	<0.001
	Pyrene	mg/l	0.001		<0.001	<0.001
	PAHs (Sum of total)	mg/l	0.001		<0.001	<0.001
PFAS	Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.05	<0.05	
	Perfluoropentanoic acid (PFPeA)	µg/L	0.01	<0.01	<0.01	
	Perfluorohexanoic acid (PFHxA)	µg/L	0.01	<0.01	<0.01	
	Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	<0.01	<0.01	
	Perfluorooctanoic acid (PFOA)	µg/L	0.01	<0.01	<0.01	
	Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.01	<0.01	
	Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.01	<0.01	
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.01	<0.01	
	Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.01	<0.01	
	Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	<0.01	<0.01	
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.01	<0.01	
	Perfluorooctane sulfonamide (FOSA)	µg/L	0.05	<0.05	<0.05	
	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	µg/L	0.05	<0.05	<0.05	
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	µg/L	0.05	<0.05	<0.05	
	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	µg/L	0.05	<0.05	<0.05	
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	µg/L	0.05	<0.05	<0.05	
	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	µg/L	0.05	<0.05	<0.05	
	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	µg/L	0.05	<0.05	<0.05	
	Perfluoropropanesulfonic acid (PFPrS)	µg/L	0.01	<0.01	<0.01	
	Perfluorobutanesulfonic acid (PFBS)	µg/L	0.01	<0.01	<0.01	
	Perfluoropentanesulfonic acid (PFPeS)	µg/L	0.01	<0.01	<0.01	
	Perfluorohexanesulfonic acid (PFHxS)	µg/L	0.01	<0.01	<0.01	
	Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.01	<0.01	
	Perfluorooctanesulfonic acid (PFOS)	µg/L	0.01	<0.01	<0.01	
	Perfluorononanesulfonic acid (PFNS)	µg/L	0.01	<0.01	<0.01	
	Perfluorodecanesulfonic acid (PFDS)	µg/L	0.01	<0.01	<0.01	
	1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	µg/L	0.01	<0.01	<0.01	
	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	µg/L	0.05	<0.05	<0.05	
	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	µg/L	0.01	<0.01	<0.01	
	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	µg/L	0.01	<0.01	<0.01	
	Sum of PFHxS and PFOS	µg/L	0.01	<0.01	<0.01	
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	µg/L	0.01	<0.01	<0.01	
	Sum of US EPA PFAS (PFOS + PFOA)*	µg/L	0.01	<0.01	<0.01	
	Sum of WA DWER PFAS (n=10)*	UG/L	0.05	<0.05	<0.05	
	Sum of PFAS	µg/L	0.1	<0.1	<0.1	
Polychlorinated Biphenyls	Arochlor 1016	mg/l	0.005		<0.005	
	Arochlor 1221	mg/l	0.005		<0.005	
	Arochlor 1232	mg/l	0.005		<0.005	
	Arochlor 1242	mg/l	0.005		<0.005	
	Arochlor 1248	mg/l	0.005		<0.005	
	Arochlor 1254	mg/l	0.005		<0.005	
	Arochlor 1260	mg/l	0.005		<0.005	
	PCBs (Sum of total)	mg/l	0.005		<0.005	
Solvents	Acetone	mg/l	0.005		<0.005	<0.005
TPHs (NEPC 1999)	C6-C9 Fraction	mg/L	0.02		<0.02	<0.02
	C10-C14 Fraction	mg/l	0.05		<0.05	<0.05
	C15-C28 Fraction	mg/l	0.1		<0.1	<0.1
	C29-C36 Fraction	mg/l	0.1		<0.1	<0.1
	C10-C36 Fraction (Sum of Total)	mg/l	0.1		<0.1	<0.1
TRHs (NEPC 2013)	C6-C10	mg/l	0.02		<0.02	<0.02
	C10-C16	mg/l	0.05		<0.05	<0.05
	C16-C34	mg/l	0.1		<0.1	<0.1
	C34-C40	mg/l	0.1		<0.1	<0.1
	C10-C40 (Sum of total)	mg/l	0.1		<0.1	<0.1
	F1 (C6-C10 minus BTEX)	mg/l	0.02		<0.02	<0.02
	F2 (C10-C16 less Naphthalene)	mg/l	0.05		<0.05	<0.05
Trihalomethanes	Dibromochloromethane	mg/l	0.001		<0.001	<0.001
	Chloroform	mg/l	0.005		<0.005	<0.005
	Tribromomethane	mg/l	0.001		<0.001	<0.001
	Bromodichloromethane	mg/l	0.001		<0.001	<0.001

Contents

Surrogate Variation > 30% or outside lab LCL or UCL

SDG	Sample_Type	Matrix_Type	SampleCode	Field_ID	Depth	Sampled_Date_Time	Compound	Recovery %	Unit	LCL	UCL
914805	Field_B	water	S22-Au0035978	BLANK		12/08/2022	13C2-4:2 FTSA (surr.)	62	%	20	130
914805	Field_B	water	S22-Au0035978	BLANK		12/08/2022	13C2-6:2 FTSA (surr.)	59	%	20	130
914805	Field_B	water	S22-Au0035978	BLANK		12/08/2022	13C2-8:2 FTSA (surr.)	55	%	20	130
914805	Field_B	water	S22-Au0035978	BLANK		12/08/2022	13C2-PFTeDA (surr.)	53	%	20	130
914805	Field_B	water	S22-Au0035978	BLANK		12/08/2022	13C3-PFBS (surr.)	68	%	20	130
914805	Field_B	water	S22-Au0035978	BLANK		12/08/2022	13C4-PFHpA (surr.)	68	%	20	130
914805	Field_B	water	S22-Au0035978	BLANK		12/08/2022	13C8-FOSA (surr.)	56	%	20	130
914805	Field_B	water	S22-Au0035978	BLANK		12/08/2022	D3-N-MeFOSAA (surr.)	65	%	20	130
914805	Field_B	water	S22-Au0035978	BLANK		12/08/2022	D5-N-EtFOSAA (surr.)	63	%	20	130
914805	Field_B	water	S22-Au0035978	BLANK		12/08/2022	D5-N-EtFOSA (surr.)	66	%	20	130
914805	Field_B	water	S22-Au0035978	BLANK		12/08/2022	D7-N-MeFOSE (surr.)	43	%	20	130
914805	Field_B	water	S22-Au0035978	BLANK		12/08/2022	D9-N-EtFOSE (surr.)	40	%	20	130
914805	Rinsate	water	S22-Au0035979	RIN20220811-W		11/08/2022	13C2-PFTeDA (surr.)	67	%	20	130
914805	Rinsate	water	S22-Au0035979	RIN20220811-W		11/08/2022	p-Terphenyl-d14 (surr.)	142	%	30	130
914805	Rinsate	water	S22-Au0035979	RIN20220811-W		11/08/2022	Tetrachloro-m-xylene (sur	135	%	70	130
914805	Rinsate	water	S22-Au0035979	RIN20220811-W		11/08/2022	D7-N-MeFOSE (surr.)	68	%	20	130
914805	Rinsate	water	S22-Au0035979	RIN20220811-W		11/08/2022	D9-N-EtFOSE (surr.)	55	%	20	130
914805	Field_D	water	S22-Au0035980	QC-MW		11/08/2022	13C2-4:2 FTSA (surr.)	60	%	20	130
914805	Field_D	water	S22-Au0035980	QC-MW		11/08/2022	13C5-PFHxA (surr.)	69	%	20	130
914805	Field_D	water	S22-Au0035980	QC-MW		11/08/2022	D9-N-EtFOSE (surr.)	69	%	20	130
914805	Normal	water	S22-Au0035981	MW03		11/08/2022	13C2-4:2 FTSA (surr.)	57	%	20	130
914805	Normal	water	S22-Au0035981	MW03		11/08/2022	13C2-PFTeDA (surr.)	60	%	20	130
914805	Normal	water	S22-Au0035981	MW03		11/08/2022	13C5-PFPeA (surr.)	67	%	20	130
914805	Normal	water	S22-Au0035981	MW03		11/08/2022	Toluene-d8 (surr.)	69	%	70	130
914805	Normal	water	S22-Au0035981	MW03		11/08/2022	2-Fluorobiphenyl (surr.)	57	%	30	130
914805	Normal	water	S22-Au0035981	MW03		11/08/2022	D7-N-MeFOSE (surr.)	65	%	20	130
914805	Normal	water	S22-Au0035981	MW03		11/08/2022	D9-N-EtFOSE (surr.)	56	%	20	130
914805	Normal	water	S22-Au0035982	MW04		11/08/2022	13C2-4:2 FTSA (surr.)	50	%	20	130
914805	Normal	water	S22-Au0035982	MW04		11/08/2022	13C2-PFTeDA (surr.)	61	%	20	130
914805	Normal	water	S22-Au0035982	MW04		11/08/2022	13C4-PFBA (surr.)	59	%	20	130
914805	Normal	water	S22-Au0035982	MW04		11/08/2022	13C5-PFHxA (surr.)	57	%	20	130
914805	Normal	water	S22-Au0035982	MW04		11/08/2022	13C5-PFPeA (surr.)	51	%	20	130
914805	Normal	water	S22-Au0035982	MW04		11/08/2022	2-Fluorobiphenyl (surr.)	52	%	30	130
914805	Normal	water	S22-Au0035982	MW04		11/08/2022	D9-N-EtFOSE (surr.)	69	%	20	130
914805	Field_D	soil	S22-Au0035986	QC20220810-01		10/08/2022	4-Bromofluorobenzene (su	60	%	50	150
914805	Field_D	soil	S22-Au0035987	QC20220811-01		11/08/2022	Dibutylchlorendate (surr.)	137	%	70	130
914805	Normal	water	S22-Au0035988	HP01		11/08/2022	D3-N-MeFOSA (surr.)	158	%	20	130
914805	Normal	water	S22-Au0035988	HP01		11/08/2022	D5-N-EtFOSA (surr.)	158	%	20	130
914805	Normal	water	S22-Au0035988	HP01		11/08/2022	D7-N-MeFOSE (surr.)	67	%	20	130
914805	Normal	water	S22-Au0035988	HP01		11/08/2022	D9-N-EtFOSE (surr.)	52	%	20	130
914805	Normal	water	S22-Au0035989	HP02		11/08/2022	13C2-10:2 FTSA (surr.)	66	%	20	130
914805	Normal	water	S22-Au0035989	HP02		11/08/2022	13C2-PFTeDA (surr.)	49	%	20	130
914805	Normal	water	S22-Au0035989	HP02		11/08/2022	13C5-PFHxA (surr.)	68	%	20	130
914805	Normal	water	S22-Au0035989	HP02		11/08/2022	D5-N-EtFOSAA (surr.)	68	%	20	130
914805	Normal	water	S22-Au0035989	HP02		11/08/2022	D7-N-MeFOSE (surr.)	51	%	20	130
914805	Normal	water	S22-Au0035989	HP02		11/08/2022	D9-N-EtFOSE (surr.)	46	%	20	130
914805	Normal	soil	S22-Au0035993	TP02-0-0.1		9/08/2022	Dibutylchlorendate (surr.)	60	%	70	130
914805	Normal	soil	S22-Au0035997	TP03-0-0.1		9/08/2022	p-Terphenyl-d14 (surr.)	135	%	30	130
914805	Normal	soil	S22-Au0036028	TP24-0-0.1		10/08/2022	4-Bromofluorobenzene (su	68	%	50	150
914805	Normal	soil	S22-Au0036037	TP28-0-0.1		10/08/2022	4-Bromofluorobenzene (su	64	%	50	150
914805	Normal	soil	S22-Au0036041	TP30-0-0.1		10/08/2022	2-Fluorobiphenyl (surr.)	133	%	30	130
914805	Normal	soil	S22-Au0036042	TP31-0-0.1		10/08/2022	Dibutylchlorendate (surr.)	59	%	70	130
914805	Normal	soil	S22-Au0036052	TP34-0-0.1		10/08/2022	4-Bromofluorobenzene (su	54	%	50	150
914805	Normal	soil	S22-Au0036057	TP37-0-0.1		10/08/2022	p-Terphenyl-d14 (surr.)	146	%	30	130
914805	Normal	soil	S22-Au0036060	TP39-0-0.1		10/08/2022	p-Terphenyl-d14 (surr.)	141	%	30	130
914805	Normal	soil	S22-Au0036062	TP40-0-0.1		10/08/2022	p-Terphenyl-d14 (surr.)	132	%	30	130
914805	Normal	soil	S22-Au0036068	HA45-0-0.1		11/08/2022	p-Terphenyl-d14 (surr.)	133	%	30	130
914805	Normal	soil	S22-Au0036069	BH46-0-0.1		11/08/2022	p-Terphenyl-d14 (surr.)	137	%	30	130
914805	Normal	soil	S22-Au0036072	HA48-0-0.1		11/08/2022	p-Terphenyl-d14 (surr.)	137	%	30	130
914805	Normal	soil	S22-Au0036072	HA48-0-0.1		11/08/2022	4-Bromofluorobenzene (su	58	%	50	150
914805	Normal	soil	S22-Au0036073	HA49-0-0.1		11/08/2022	p-Terphenyl-d14 (surr.)	140	%	30	130
914805	Normal	soil	S22-Au0036074	HA50-0-0.1		11/08/2022	p-Terphenyl-d14 (surr.)	145	%	30	130

Contents

Laboratory Control Samples, Error > 30%

SDG	Matrix_Type	SampleCode	Method_Name	OriginalChemName	Recovery %	Unit	Result_Type
914805	water	LCS_1_914805	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Perfluorodecanesulfonic acid (PFDS)	65	%	REG
914805	water	LCS_1_914805	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Perfluorotridecanoic acid (PFTrDA)	146	%	REG

Contents

Matrix Spike Recoveries less than 70% or greater than 130% or outside lab LCL or UCL

SDG	Lab_Report_Number	Matrix_Type	SampleCode	Field_ID	Date	Method_Name	Compound	Recovery %
914805	914805	water	NCP_Au0035214_914805-SPK		11/08/2022	LTM-ORG-2220 OCP & PCB in Soil and Water	Hexachlorobenzene	68
914805	914805	water	NCP_Au0035214_914805-SPK		11/08/2022	LTM-ORG-2130 PAH and Phenols in Soil and Water	Acenaphthylene	50
914805	914805	water	S22-Au0035989-SPK	HP02	11/08/2022	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Perfluorodecanesulfonic acid (PFDS)	62
914805	914805	water	S22-Au0035989-SPK	HP02	11/08/2022	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Perfluorotridecanoic acid (PFTrDA)	146

Appendix G Laboratory Certificates and COC Documentation

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

Order No.:
Report #: 914805
Phone: 02 8245 0300
Fax:

Received: Aug 16, 2022 1:47 PM
Due: Aug 19, 2022
Priority: 3 Day
Contact Name: Gina Pinget

Project Name: WENTWORTH HEALTH SERVICES REDEVELOPMENT
Project ID: 63097

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25 °C)	E.coli (MPN)	HOLD	pH (at 25 °C)	Thermotolerant Coliforms (MPN)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Total Dissolved Solids Dried at 180 °C ± 2 °C
Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
External Laboratory										X			X														
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																						
1	RIN20220811	Aug 11, 2022		Water	S22-Au0034365			X																			
2	TRIP BLANK	Aug 12, 2022		Water	S22-Au0035976													X									
3	TRIP SPIKE	Aug 12, 2022		Water	S22-Au0035977																					X	
4	BLANK	Aug 12, 2022		Water	S22-Au0035978																				X		
5	RIN20220811-W	Aug 11, 2022		Water	S22-Au0035979										X	X				X			X		X		
6	QC-MW	Aug 11, 2022		Water	S22-Au0035980				X			X							X	X				X	X		X
7	MW03	Aug 11, 2022		Water	S22-Au0035981				X			X							X	X				X	X		X
8	MW04	Aug 11, 2022		Water	S22-Au0035982				X			X							X	X				X	X		X
9	FRAG-02	Aug 10, 2022		Building Materials	S22-Au0035983		X																				
10	FRAG-04	Aug 11, 2022		Building	S22-Au0035984		X																				

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
				Materials																							
11	QC20220809-01	Aug 09, 2022		Soil	S22-Au0035985	X									X	X					X						
12	QC20220810-01	Aug 10, 2022		Soil	S22-Au0035986	X				X			X								X		X				
13	QC20220811-01	Aug 11, 2022		Soil	S22-Au0035987	X								X	X	X	X			X	X						
14	HP01	Aug 11, 2022		Water	S22-Au0035988																				X		
15	HP02	Aug 11, 2022		Water	S22-Au0035989																				X		
16	TP01-0-0.1	Aug 09, 2022		Soil	S22-Au0035990										X	X					X		X				
17	TP01-0-0.3	Aug 09, 2022		Soil	S22-Au0035991	X																					
18	TP01-0.5-0.6	Aug 09, 2022		Soil	S22-Au0035992																X	X					
19	TP02-0-0.1	Aug 09, 2022		Soil	S22-Au0035993										X	X					X						
20	TP02-0-0.4	Aug 09, 2022		Soil	S22-Au0035994	X																					
21	RIN20220811-	Aug 11, 2022		Water	S22-Au0035995															X			X				

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Order No.:
Report #: 914805
Phone: 02 8245 0300
Fax:

Received: Aug 16, 2022 1:47 PM
Due: Aug 19, 2022
Priority: 3 Day
Contact Name: Gina Pinget

Project Name: WENTWORTH HEALTH SERVICES REDEVELOPMENT
Project ID: 63097

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25 °C)	E.coli (MPN)	HOLD	pH (at 25 °C)	Thermotolerant Coliforms (MPN)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Total Dissolved Solids Dried at 180 °C ± 2 °C
Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
21	RIN20220811-S	Aug 11, 2022		Water	S22-Au0035995																						
22	SS01-0-0.1	Aug 09, 2022		Soil	S22-Au0035996															X	X		X				
23	TP03-0-0.1	Aug 09, 2022		Soil	S22-Au0035997										X	X					X		X				
24	TP03-0-1.0	Aug 09, 2022		Soil	S22-Au0035998	X																					
25	TP04-0-0.4	Aug 09, 2022		Soil	S22-Au0035999	X																					
26	TP04-0-0.1	Aug 09, 2022		Soil	S22-Au0036000										X	X				X	X						
27	TP05-0-0.1	Aug 09, 2022		Soil	S22-Au0036001	X									X	X					X		X				
28	TP06-0-0.1	Aug 09, 2022		Soil	S22-Au0036002	X									X	X					X						
29	TP07-0-0.1	Aug 09, 2022		Soil	S22-Au0036003	X									X	X					X		X				
30	TP07-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036004																X	X					
31	TP08-0-0.1	Aug 09, 2022		Soil	S22-Au0036005	X									X	X					X						
32	TP09-0-0.2	Aug 09, 2022		Soil	S22-Au0036006	X																					
33	TP09-0-0.1	Aug 09, 2022		Soil	S22-Au0036007										X	X					X						

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Project ID: 63097

Eurofins Analytical Services Manager : Andrew Black

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
34	TP10-0-0.1	Aug 09, 2022		Soil	S22-Au0036008	X								X	X	X	X				X						
35	TP11-0-0.2	Aug 09, 2022		Soil	S22-Au0036009	X																					
36	TP11-0-0.1	Aug 09, 2022		Soil	S22-Au0036010										X	X					X		X				
37	TP12-0-0.1	Aug 09, 2022		Soil	S22-Au0036011	X									X	X					X						
38	TP13-0-0.1	Aug 09, 2022		Soil	S22-Au0036012	X															X		X				
39	TP14-0-0.1	Aug 09, 2022		Soil	S22-Au0036013					X			X	X			X				X						
40	TP15-0-0.2	Aug 09, 2022		Soil	S22-Au0036014	X																					
41	TP15-0-0.1	Aug 09, 2022		Soil	S22-Au0036015										X	X					X						
42	TP16-0-0.5	Aug 09, 2022		Soil	S22-Au0036016			X																			
43	TP16-0-0.1	Aug 09, 2022		Soil	S22-Au0036017																X		X				
44	TP17-0-0.3	Aug 10, 2022		Soil	S22-Au0036018	X																					
45	TP17-0-0.1	Aug 10, 2022		Soil	S22-Au0036019									X			X				X						
46	TP18-0-0.1	Aug 10, 2022		Soil	S22-Au0036020					X			X								X		X				
47	TP18-0-0.2	Aug 10, 2022		Soil	S22-Au0036021	X																					

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Eurofins Analytical Services Manager : Andrew Black

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
48	TP19-0-0.1	Aug 10, 2022		Soil	S22-Au0036022	X																					
49	TP19-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036023																X	X					
50	TP20-0-0.1	Aug 10, 2022		Soil	S22-Au0036024	X															X		X				
51	TP21-0-0.1	Aug 10, 2022		Soil	S22-Au0036025	X																					
52	TP22-0-0.1	Aug 10, 2022		Soil	S22-Au0036026	X																					
53	TP23-0-0.1	Aug 10, 2022		Soil	S22-Au0036027	X				X			X								X		X				
54	TP24-0-0.1	Aug 10, 2022		Soil	S22-Au0036028	X				X			X								X		X				
55	TP25-0-0.2	Aug 10, 2022		Soil	S22-Au0036029	X																					
56	TP25-0-0.1	Aug 10, 2022		Soil	S22-Au0036030									X	X	X	X				X						
57	TP25-0.2-0.25	Aug 10, 2022		Soil	S22-Au0036031																X		X				
58	TP26-0-0.1	Aug 10, 2022		Soil	S22-Au0036032	X									X	X					X						
59	TP26-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036033																X	X					
60	TP27-0-0.1	Aug 10, 2022		Soil	S22-Au0036034										X	X					X						
61	TP27-0-0.2	Aug 10, 2022		Soil	S22-Au0036035	X																					

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
62	TP28-0-0.4	Aug 10, 2022		Soil	S22-Au0036036	X																					
63	TP28-0-0.1	Aug 10, 2022		Soil	S22-Au0036037										X	X					X		X				
64	TP29-0-0.1	Aug 10, 2022		Soil	S22-Au0036038										X	X					X						
65	TP29-0-0.2	Aug 10, 2022		Soil	S22-Au0036039	X																					
66	TP30-0-0.2	Aug 10, 2022		Soil	S22-Au0036040	X																					
67	TP30-0-0.1	Aug 10, 2022		Soil	S22-Au0036041									X	X	X	X				X						
68	TP31-0-0.1	Aug 10, 2022		Soil	S22-Au0036042	X									X	X				X	X						
69	FRAG_TP32-0.5-0.7	Aug 10, 2022		Building Materials	S22-Au0036043		X																				
70	TP32-0-0.1	Aug 10, 2022		Soil	S22-Au0036044										X	X					X		X				
71	TP32-0.2-0.5	Aug 10, 2022		Soil	S22-Au0036045	X																					
72	TP32-0.5-0.7	Aug 10, 2022		Soil	S22-Au0036046	X																					
73	TP33-0-0.4	Aug 10, 2022		Soil	S22-Au0036047	X																					
74	TP33-0-0.1	Aug 10, 2022		Soil	S22-Au0036048										X	X					X						

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
75	TP33-0.4-0.7	Aug 10, 2022		Soil	S22-Au0036049	X																					
76	FRAG_TP03-0-0.4	Aug 09, 2022		Building Materials	S22-Au0036050		X																				
77	FRAG_TP33-0-0.1	Aug 10, 2022		Building Materials	S22-Au0036051		X																				
78	TP34-0-0.1	Aug 10, 2022		Soil	S22-Au0036052					X			X								X		X				
79	TP34-0-0.4	Aug 10, 2022		Soil	S22-Au0036053	X																					
80	TP35-0-0.1	Aug 10, 2022		Soil	S22-Au0036054									X			X				X						
81	TP35-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036055																X	X					
82	TP36-0-0.1	Aug 10, 2022		Soil	S22-Au0036056	X																					
83	TP37-0-0.1	Aug 10, 2022		Soil	S22-Au0036057	X															X		X				
84	TP38-0-0.1	Aug 10, 2022		Soil	S22-Au0036058	X																					
85	TP39-0-0.3	Aug 10, 2022		Soil	S22-Au0036059	X																					
86	TP39-0-0.1	Aug 10, 2022		Soil	S22-Au0036060									X			X				X						

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
87	TP40-0-0.2	Aug 10, 2022		Soil	S22-Au0036061	X																					
88	TP40-0-0.1	Aug 10, 2022		Soil	S22-Au0036062																X		X				
89	TP41-0-0.1	Aug 10, 2022		Soil	S22-Au0036063	X								X			X				X						
90	FRAG_TP41-0-0.1	Aug 10, 2022		Building Materials	S22-Au0036064		X																				
91	TP42-0-0.1	Aug 10, 2022		Soil	S22-Au0036065	X														X	X		X				
92	HA43-0-0.1	Aug 11, 2022		Soil	S22-Au0036066	X								X			X				X						
93	HA44-0-0.1	Aug 11, 2022		Soil	S22-Au0036067	X								X			X				X						
94	HA45-0-0.1	Aug 11, 2022		Soil	S22-Au0036068	X								X			X				X						
95	BH46-0-0.1	Aug 11, 2022		Soil	S22-Au0036069	X								X			X				X						
96	HA47-0-0.2	Aug 11, 2022		Soil	S22-Au0036070	X																					
97	HA47-0-0.1	Aug 11, 2022		Soil	S22-Au0036071									X			X				X						
98	HA48-0-0.1	Aug 11, 2022		Soil	S22-Au0036072	X															X		X				
99	HA49-0-0.1	Aug 11, 2022		Soil	S22-Au0036073	X								X	X	X	X				X						

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Order No.:
Report #: 914805
Phone: 02 8245 0300
Fax:

Received: Aug 16, 2022 1:47 PM
Due: Aug 19, 2022
Priority: 3 Day
Contact Name: Gina Pinget

Project Name: WENTWORTH HEALTH SERVICES REDEVELOPMENT
Project ID: 63097

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25 °C)	E.coli (MPN)	HOLD	pH (at 25 °C)	Thermotolerant Coliforms (MPN)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Total Dissolved Solids Dried at 180 °C ± 2 °C
Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
100	HA50-0-0.1	Aug 11, 2022		Soil	S22-Au0036074	X								X	X	X	X			X	X						
101	FRAG-01	Aug 10, 2022		Building Materials	S22-Au0036075						X																
102	FRAG-03	Aug 10, 2022		Building Materials	S22-Au0036076						X																
103	TP01-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036077						X																
104	TP02-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036078						X																
105	TP02-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036079						X																
106	TP02-1.0-1.1	Aug 09, 2022		Soil	S22-Au0036080						X																
107	TP03-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036081						X																
108	TP03-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036082						X																
109	TP03-1.4-1.5	Aug 09, 2022		Soil	S22-Au0036083						X																
110	TP04-0.4-0.5	Aug 09, 2022		Soil	S22-Au0036084						X																
111	TP04-0.5-0.7	Aug 09, 2022		Soil	S22-Au0036085						X																

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Project ID: 63097

Eurofins Analytical Services Manager : Andrew Black

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
112	TP04-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036086						X																
113	TP04-1.0-1.1	Aug 09, 2022		Soil	S22-Au0036087						X																
114	TP05-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036088						X																
115	TP05-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036089						X																
116	TP06-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036090						X																
117	TP06-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036091						X																
118	TP07-0.1-0.2	Aug 09, 2022		Soil	S22-Au0036092						X																
119	TP07-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036093						X																
120	TP08-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036094						X																
121	TP09-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036095						X																
122	TP09-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036096						X																
123	TP10-0.1-0.4	Aug 09, 2022		Soil	S22-Au0036097						X																
124	TP10-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036098						X																
125	TP10-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036099						X																

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Project ID: 63097

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25 °C)	E.coli (MPN)	HOLD	pH (at 25 °C)	Thermotolerant Coliforms (MPN)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Total Dissolved Solids Dried at 180 °C ± 2 °C
Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
126	TP11-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036100						X																
127	TP11-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036101						X																
128	TP12-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036102						X																
129	TP13-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036103						X																
130	TP14-0-0.3	Aug 09, 2022		Soil	S22-Au0036104	X																					
131	TP14-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036105						X																
132	TP14-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036106						X																
133	TP15-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036107						X																
134	TP15-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036108						X																
135	TP16-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036109	X																					
136	TP16-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036110						X																
137	TP17-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036111						X																
138	TP17-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036112						X																
139	TP18-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036113						X																

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
140	TP20-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036114						X																
141	TP21-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036115						X																
142	TP21-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036116						X																
143	TP22-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036117						X																
144	TP22-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036118						X																
145	TP23-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036119						X																
146	TP23-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036120						X																
147	TP24-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036121						X																
148	TP24-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036122						X																
149	TP25-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036123						X																
150	TP25-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036124						X																
151	TP26-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036125						X																
152	TP27-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036126						X																
153	TP27-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036127						X																

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
154	TP27-0.2-1.0	Aug 10, 2022		Soil	S22-Au0036128						X																
155	TP28-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036129						X																
156	TP29-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036130						X																
157	TP29-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036131						X																
158	TP30-0.2-0.4	Aug 10, 2022		Soil	S22-Au0036132						X																
159	TP30-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036133						X																
160	TP30-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036134						X																
161	TP31-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036135						X																
162	TP31-0.7-0.8	Aug 10, 2022		Soil	S22-Au0036136						X																
163	TP32-0-0.2	Aug 10, 2022		Soil	S22-Au0036137	X																					
164	TP32-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036138						X																
165	TP32-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036139						X																
166	TP32-1.0-1.1	Aug 10, 2022		Soil	S22-Au0036140						X																
167	TP33-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036141						X																

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Fax:

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Due: Aug 19, 2022
Priority: 3 Day
Contact Name: Gina Pinget

Project Name: WENTWORTH HEALTH SERVICES REDEVELOPMENT
Project ID: 63097

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25 °C)	E.coli (MPN)	HOLD	pH (at 25 °C)	Thermotolerant Coliforms (MPN)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Total Dissolved Solids Dried at 180 °C ± 2 °C
Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
168	TP33-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036142						X																
169	TP33-1.0-1.1	Aug 10, 2022		Soil	S22-Au0036143						X																
170	TP34-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036144						X																
171	FRAG_TP34-0-0.2	Aug 10, 2022		Building Materials	S22-Au0036145						X																
172	TP35-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036146						X																
173	TP36-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036147						X																
174	TP36-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036148						X																
175	TP37-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036149						X																
176	TP37-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036150						X																
177	TP38-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036151						X																
178	TP38-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036152						X																
179	TP39-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036153						X																
180	TP39-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036154						X																

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Order No.:
Report #: 914805
Phone: 02 8245 0300
Fax:

Received: Aug 16, 2022 1:47 PM
Due: Aug 19, 2022
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Contact Name: Gina Pinget

Project Name: WENTWORTH HEALTH SERVICES REDEVELOPMENT
Project ID: 63097

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25 °C)	E.coli (MPN)	HOLD	pH (at 25 °C)	Thermotolerant Coliforms (MPN)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Total Dissolved Solids Dried at 180 °C ± 2 °C
Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
181	TP40-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036155						X																
182	TP40-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036156						X																
183	TP41-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036157						X																
184	TP42-0.1-0.2	Aug 10, 2022		Soil	S22-Au0036158						X																
185	TP42-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036159						X																
186	HA43-0.2-0.3	Aug 11, 2022		Soil	S22-Au0036160						X																
187	HA44-0.2-0.3	Aug 11, 2022		Soil	S22-Au0036161						X																
188	HA45-0.2-0.3	Aug 11, 2022		Soil	S22-Au0036162						X																
189	BH46-0.3-0.4	Aug 11, 2022		Soil	S22-Au0036163						X																
190	BH46-0.5-0.6	Aug 11, 2022		Soil	S22-Au0036164						X																
191	HA48-0.2-0.3	Aug 11, 2022		Soil	S22-Au0036165						X																
192	HA49-0.1-0.2	Aug 11, 2022		Soil	S22-Au0036166						X																
193	HA50-0.2-0.3	Aug 11, 2022		Soil	S22-Au0036167						X																
Test Counts						55	6	2	3	6	90	3	6	16	27	27	16	1	3	11	55	5	23	3	7	1	3

Certificate of Analysis

Environment Testing

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.

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Attention:	Gina Pinget
Report	914805-AID
Project Name	WENTWORTH HEALTH SERVICES REDEVELOPMENT
Project ID	63097
Received Date	Aug 16, 2022
Date Reported	Aug 22, 2022

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name WENTWORTH HEALTH SERVICES REDEVELOPMENT
Project ID 63097
Date Sampled Aug 09, 2022 to Aug 11, 2022
Report 914805-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
FRAG-02	22-Au0035983	Aug 10, 2022	Approximate Sample 6g / 25x20x4mm Sample consisted of: Grey compressed fibre plaster cement material	Chrysotile asbestos detected.
FRAG-04	22-Au0035984	Aug 11, 2022	Approximate Sample 6g / 30x20x5mm Sample consisted of: Grey compressed fibre plaster cement material	Chrysotile asbestos detected.
QC20220809-01	22-Au0035985	Aug 09, 2022	Approximate Sample 661g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC20220810-01	22-Au0035986	Aug 10, 2022	Approximate Sample 813g Sample consisted of: Brown fine-grained clayey soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC20220811-01	22-Au0035987	Aug 11, 2022	Approximate Sample 605g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP01-0-0.3	22-Au0035991	Aug 09, 2022	Approximate Sample 665g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP02-0-0.4	22-Au0035994	Aug 09, 2022	Approximate Sample 554g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP03-0-1.0	22-Au0035998	Aug 09, 2022	Approximate Sample 695g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP04-0-0.4	22-Au0035999	Aug 09, 2022	Approximate Sample 670g Sample consisted of: Brown fine-grained clayey soil, cement, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP05-0-0.1	22-Au0036001	Aug 09, 2022	Approximate Sample 615g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP06-0-0.1	22-Au0036002	Aug 09, 2022	Approximate Sample 657g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP07-0-0.1	22-Au0036003	Aug 09, 2022	Approximate Sample 711g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP08-0-0.1	22-Au0036005	Aug 09, 2022	Approximate Sample 558g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP09-0-0.2	22-Au0036006	Aug 09, 2022	Approximate Sample 574g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP10-0-0.1	22-Au0036008	Aug 09, 2022	Approximate Sample 757g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP11-0-0.2	22-Au0036009	Aug 09, 2022	Approximate Sample 631g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP12-0-0.1	22-Au0036011	Aug 09, 2022	Approximate Sample 661g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP13-0-0.1	22-Au0036012	Aug 09, 2022	Approximate Sample 599g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP15-0-0.2	22-Au0036014	Aug 09, 2022	Approximate Sample 580g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP17-0-0.3	22-Au0036018	Aug 10, 2022	Approximate Sample 635g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP18-0-0.2	22-Au0036021	Aug 10, 2022	Approximate Sample 622g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP19-0-0.1	22-Au0036022	Aug 10, 2022	Approximate Sample 642g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP20-0-0.1	22-Au0036024	Aug 10, 2022	Approximate Sample 560g Sample consisted of: Brown fine-grained clayey soil, cement, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP21-0-0.1	22-Au0036025	Aug 10, 2022	Approximate Sample 500g Sample consisted of: Brown fine-grained clayey soil, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP22-0-0.1	22-Au0036026	Aug 10, 2022	Approximate Sample 678g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP23-0-0.1	22-Au0036027	Aug 10, 2022	Approximate Sample 707g Sample consisted of: Brown fine-grained soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP24-0-0.1	22-Au0036028	Aug 10, 2022	Approximate Sample 704g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP25-0-0.2	22-Au0036029	Aug 10, 2022	Approximate Sample 810g Sample consisted of: Brown coarse-grained soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP26-0-0.1	22-Au0036032	Aug 10, 2022	Approximate Sample 552g Sample consisted of: Brown coarse-grained sandy soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP27-0-0.2	22-Au0036035	Aug 10, 2022	Approximate Sample 695g Sample consisted of: Brown coarse-grained sandy soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP28-0-0.4	22-Au0036036	Aug 10, 2022	Approximate Sample 614g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP29-0-0.2	22-Au0036039	Aug 10, 2022	Approximate Sample 616g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP30-0-0.2	22-Au0036040	Aug 10, 2022	Approximate Sample 653g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP31-0-0.1	22-Au0036042	Aug 10, 2022	Approximate Sample 719g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
FRAG_TP32-0.5-0.7	22-Au0036043	Aug 10, 2022	Approximate Sample 103g / 150x80x3mm Sample consisted of: Grey fibre cement material	Chrysotile and amosite asbestos detected.
TP32-0.2-0.5	22-Au0036045	Aug 10, 2022	Approximate Sample 719g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP32-0.5-0.7	22-Au0036046	Aug 10, 2022	Approximate Sample 586g Sample consisted of: Brown fine-grained clayey soil, cement, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP33-0-0.4	22-Au0036047	Aug 10, 2022	Approximate Sample 609g Sample consisted of: Brown fine-grained clayey soil, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP33-0.4-0.7	22-Au0036049	Aug 10, 2022	Approximate Sample 547g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
FRAG_TP03-0-0.4	22-Au0036050	Aug 09, 2022	Approximate Sample 6g / 30x20x5mm Sample consisted of: Grey compressed fibre plaster cement material	Chrysotile asbestos detected.
FRAG_TP33-0-0.1	22-Au0036051	Aug 10, 2022	Approximate Sample 32g / 70x25x5mm Sample consisted of: Grey compressed fibre plaster cement material	Chrysotile and amosite asbestos detected.
TP34-0-0.4	22-Au0036053	Aug 10, 2022	Approximate Sample 542g Sample consisted of: Brown fine-grained clayey soil, cement, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP36-0-0.1	22-Au0036056	Aug 10, 2022	Approximate Sample 547g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP37-0-0.1	22-Au0036057	Aug 10, 2022	Approximate Sample 489g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP38-0-0.1	22-Au0036058	Aug 10, 2022	Approximate Sample 493g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP39-0-0.3	22-Au0036059	Aug 10, 2022	Approximate Sample 562g Sample consisted of: Brown fine-grained clayey soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP40-0-0.2	22-Au0036061	Aug 10, 2022	Approximate Sample 588g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP41-0-0.1	22-Au0036063	Aug 10, 2022	Approximate Sample 651g Sample consisted of: Brown coarse-grained sandy soil, coal, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
FRAG_TP41-0-0.1	22-Au0036064	Aug 10, 2022	Approximate Sample 6g / 25x20x3mm Sample consisted of: Grey fibre cement material and coating	Chrysotile asbestos detected.
TP42-0-0.1	22-Au0036065	Aug 10, 2022	Approximate Sample 575g Sample consisted of: Brown coarse-grained soil, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HA43-0-0.1	22-Au0036066	Aug 11, 2022	Approximate Sample 669g Sample consisted of: Brown fine-grained clayey soil, cement, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HA44-0-0.1	22-Au0036067	Aug 11, 2022	Approximate Sample 819g Sample consisted of: Brown coarse-grained soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HA45-0-0.1	22-Au0036068	Aug 11, 2022	Approximate Sample 755g Sample consisted of: Brown coarse-grained soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH46-0-0.1	22-Au0036069	Aug 11, 2022	Approximate Sample 621g Sample consisted of: Brown coarse-grained sandy soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HA47-0-0.2	22-Au0036070	Aug 11, 2022	Approximate Sample 583g Sample consisted of: Brown coarse-grained sandy soil, plaster and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HA48-0-0.1	22-Au0036072	Aug 11, 2022	Approximate Sample 671g Sample consisted of: Brown coarse-grained sandy soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HA49-0-0.1	22-Au0036073	Aug 11, 2022	Approximate Sample 637g Sample consisted of: Brown coarse-grained sandy soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HA50-0-0.1	22-Au0036074	Aug 11, 2022	Approximate Sample 589g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP14-0-0.3	22-Au0036104	Aug 09, 2022	Approximate Sample 437g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP16-0.3-0.4	22-Au0036109	Aug 09, 2022	Approximate Sample 704g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP32-0-0.2	22-Au0036137	Aug 10, 2022	Approximate Sample 691g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Aug 17, 2022	Indefinite
Asbestos - LTM-ASB-8020	Sydney	Aug 17, 2022	Indefinite

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Company Name: JBS & G Australia (NSW) P/L
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Order No.:
Report #: 914805
Phone: 02 8245 0300
Fax:

Received: Aug 16, 2022 1:47 PM
Due: Aug 19, 2022
Priority: 3 Day
Contact Name: Gina Pinget

Project Name: WENTWORTH HEALTH SERVICES REDEVELOPMENT
Project ID: 63097

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25 °C)	E.coli (MPN)	HOLD	pH (at 25 °C)	Thermotolerant Coliforms (MPN)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Total Dissolved Solids Dried at 180 °C ± 2 °C
Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
External Laboratory										X			X														
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																						
1	RIN20220811	Aug 11, 2022		Water	S22-Au0034365			X																			
2	TRIP BLANK	Aug 12, 2022		Water	S22-Au0035976													X									
3	TRIP SPIKE	Aug 12, 2022		Water	S22-Au0035977																					X	
4	BLANK	Aug 12, 2022		Water	S22-Au0035978																				X		
5	RIN20220811-W	Aug 11, 2022		Water	S22-Au0035979										X	X				X			X		X		
6	QC-MW	Aug 11, 2022		Water	S22-Au0035980				X			X							X	X				X	X		X
7	MW03	Aug 11, 2022		Water	S22-Au0035981				X			X							X	X				X	X		X
8	MW04	Aug 11, 2022		Water	S22-Au0035982				X			X							X	X				X	X		X
9	FRAG-02	Aug 10, 2022		Building Materials	S22-Au0035983		X																				
10	FRAG-04	Aug 11, 2022		Building	S22-Au0035984		X																				

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
				Materials																							
11	QC20220809-01	Aug 09, 2022		Soil	S22-Au0035985	X									X	X					X						
12	QC20220810-01	Aug 10, 2022		Soil	S22-Au0035986	X				X			X								X		X				
13	QC20220811-01	Aug 11, 2022		Soil	S22-Au0035987	X								X	X	X	X			X	X						
14	HP01	Aug 11, 2022		Water	S22-Au0035988																				X		
15	HP02	Aug 11, 2022		Water	S22-Au0035989																				X		
16	TP01-0-0.1	Aug 09, 2022		Soil	S22-Au0035990										X	X					X		X				
17	TP01-0-0.3	Aug 09, 2022		Soil	S22-Au0035991	X																					
18	TP01-0.5-0.6	Aug 09, 2022		Soil	S22-Au0035992																X	X					
19	TP02-0-0.1	Aug 09, 2022		Soil	S22-Au0035993										X	X					X						
20	TP02-0-0.4	Aug 09, 2022		Soil	S22-Au0035994	X																					
21	RIN20220811-	Aug 11, 2022		Water	S22-Au0035995															X			X				

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
21	RIN20220811-S	Aug 11, 2022		Water	S22-Au0035995																						
22	SS01-0-0.1	Aug 09, 2022		Soil	S22-Au0035996															X	X		X				
23	TP03-0-0.1	Aug 09, 2022		Soil	S22-Au0035997										X	X					X		X				
24	TP03-0-1.0	Aug 09, 2022		Soil	S22-Au0035998	X																					
25	TP04-0-0.4	Aug 09, 2022		Soil	S22-Au0035999	X																					
26	TP04-0-0.1	Aug 09, 2022		Soil	S22-Au0036000										X	X				X	X						
27	TP05-0-0.1	Aug 09, 2022		Soil	S22-Au0036001	X									X	X					X		X				
28	TP06-0-0.1	Aug 09, 2022		Soil	S22-Au0036002	X									X	X					X						
29	TP07-0-0.1	Aug 09, 2022		Soil	S22-Au0036003	X									X	X					X		X				
30	TP07-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036004																X	X					
31	TP08-0-0.1	Aug 09, 2022		Soil	S22-Au0036005	X									X	X					X						
32	TP09-0-0.2	Aug 09, 2022		Soil	S22-Au0036006	X																					
33	TP09-0-0.1	Aug 09, 2022		Soil	S22-Au0036007										X	X					X						

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
34	TP10-0-0.1	Aug 09, 2022		Soil	S22-Au0036008	X								X	X	X	X				X						
35	TP11-0-0.2	Aug 09, 2022		Soil	S22-Au0036009	X																					
36	TP11-0-0.1	Aug 09, 2022		Soil	S22-Au0036010										X	X					X		X				
37	TP12-0-0.1	Aug 09, 2022		Soil	S22-Au0036011	X									X	X					X						
38	TP13-0-0.1	Aug 09, 2022		Soil	S22-Au0036012	X															X		X				
39	TP14-0-0.1	Aug 09, 2022		Soil	S22-Au0036013					X			X	X			X				X						
40	TP15-0-0.2	Aug 09, 2022		Soil	S22-Au0036014	X																					
41	TP15-0-0.1	Aug 09, 2022		Soil	S22-Au0036015										X	X					X						
42	TP16-0-0.5	Aug 09, 2022		Soil	S22-Au0036016			X																			
43	TP16-0-0.1	Aug 09, 2022		Soil	S22-Au0036017																X		X				
44	TP17-0-0.3	Aug 10, 2022		Soil	S22-Au0036018	X																					
45	TP17-0-0.1	Aug 10, 2022		Soil	S22-Au0036019									X			X				X						
46	TP18-0-0.1	Aug 10, 2022		Soil	S22-Au0036020					X			X								X		X				
47	TP18-0-0.2	Aug 10, 2022		Soil	S22-Au0036021	X																					

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
48	TP19-0-0.1	Aug 10, 2022		Soil	S22-Au0036022	X																					
49	TP19-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036023																X	X					
50	TP20-0-0.1	Aug 10, 2022		Soil	S22-Au0036024	X															X		X				
51	TP21-0-0.1	Aug 10, 2022		Soil	S22-Au0036025	X																					
52	TP22-0-0.1	Aug 10, 2022		Soil	S22-Au0036026	X																					
53	TP23-0-0.1	Aug 10, 2022		Soil	S22-Au0036027	X				X			X								X		X				
54	TP24-0-0.1	Aug 10, 2022		Soil	S22-Au0036028	X				X			X								X		X				
55	TP25-0-0.2	Aug 10, 2022		Soil	S22-Au0036029	X																					
56	TP25-0-0.1	Aug 10, 2022		Soil	S22-Au0036030									X	X	X	X				X						
57	TP25-0.2-0.25	Aug 10, 2022		Soil	S22-Au0036031																X		X				
58	TP26-0-0.1	Aug 10, 2022		Soil	S22-Au0036032	X									X	X					X						
59	TP26-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036033																X	X					
60	TP27-0-0.1	Aug 10, 2022		Soil	S22-Au0036034										X	X					X						
61	TP27-0-0.2	Aug 10, 2022		Soil	S22-Au0036035	X																					

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
62	TP28-0-0.4	Aug 10, 2022		Soil	S22-Au0036036	X																					
63	TP28-0-0.1	Aug 10, 2022		Soil	S22-Au0036037										X	X					X		X				
64	TP29-0-0.1	Aug 10, 2022		Soil	S22-Au0036038										X	X					X						
65	TP29-0-0.2	Aug 10, 2022		Soil	S22-Au0036039	X																					
66	TP30-0-0.2	Aug 10, 2022		Soil	S22-Au0036040	X																					
67	TP30-0-0.1	Aug 10, 2022		Soil	S22-Au0036041									X	X	X	X				X						
68	TP31-0-0.1	Aug 10, 2022		Soil	S22-Au0036042	X									X	X				X	X						
69	FRAG_TP32-0.5-0.7	Aug 10, 2022		Building Materials	S22-Au0036043		X																				
70	TP32-0-0.1	Aug 10, 2022		Soil	S22-Au0036044										X	X					X		X				
71	TP32-0.2-0.5	Aug 10, 2022		Soil	S22-Au0036045	X																					
72	TP32-0.5-0.7	Aug 10, 2022		Soil	S22-Au0036046	X																					
73	TP33-0-0.4	Aug 10, 2022		Soil	S22-Au0036047	X																					
74	TP33-0-0.1	Aug 10, 2022		Soil	S22-Au0036048										X	X					X						

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Order No.:
Report #: 914805
Phone: 02 8245 0300
Fax:

Received: Aug 16, 2022 1:47 PM
Due: Aug 19, 2022
Priority: 3 Day
Contact Name: Gina Pinget

Project Name: WENTWORTH HEALTH SERVICES REDEVELOPMENT
Project ID: 63097

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25 °C)	E.coli (MPN)	HOLD	pH (at 25 °C)	Thermotolerant Coliforms (MPN)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Total Dissolved Solids Dried at 180 °C ± 2 °C
Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
75	TP33-0.4-0.7	Aug 10, 2022		Soil	S22-Au0036049	X																					
76	FRAG_TP03-0-0.4	Aug 09, 2022		Building Materials	S22-Au0036050		X																				
77	FRAG_TP33-0-0.1	Aug 10, 2022		Building Materials	S22-Au0036051		X																				
78	TP34-0-0.1	Aug 10, 2022		Soil	S22-Au0036052					X			X								X		X				
79	TP34-0-0.4	Aug 10, 2022		Soil	S22-Au0036053	X																					
80	TP35-0-0.1	Aug 10, 2022		Soil	S22-Au0036054									X			X				X						
81	TP35-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036055																X	X					
82	TP36-0-0.1	Aug 10, 2022		Soil	S22-Au0036056	X																					
83	TP37-0-0.1	Aug 10, 2022		Soil	S22-Au0036057	X															X		X				
84	TP38-0-0.1	Aug 10, 2022		Soil	S22-Au0036058	X																					
85	TP39-0-0.3	Aug 10, 2022		Soil	S22-Au0036059	X																					
86	TP39-0-0.1	Aug 10, 2022		Soil	S22-Au0036060									X			X				X						

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Eurofins Analytical Services Manager : Andrew Black

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
87	TP40-0-0.2	Aug 10, 2022		Soil	S22-Au0036061	X																					
88	TP40-0-0.1	Aug 10, 2022		Soil	S22-Au0036062																X		X				
89	TP41-0-0.1	Aug 10, 2022		Soil	S22-Au0036063	X								X			X				X						
90	FRAG_TP41-0-0.1	Aug 10, 2022		Building Materials	S22-Au0036064		X																				
91	TP42-0-0.1	Aug 10, 2022		Soil	S22-Au0036065	X														X	X		X				
92	HA43-0-0.1	Aug 11, 2022		Soil	S22-Au0036066	X								X			X				X						
93	HA44-0-0.1	Aug 11, 2022		Soil	S22-Au0036067	X								X			X				X						
94	HA45-0-0.1	Aug 11, 2022		Soil	S22-Au0036068	X								X			X				X						
95	BH46-0-0.1	Aug 11, 2022		Soil	S22-Au0036069	X								X			X				X						
96	HA47-0-0.2	Aug 11, 2022		Soil	S22-Au0036070	X																					
97	HA47-0-0.1	Aug 11, 2022		Soil	S22-Au0036071									X			X				X						
98	HA48-0-0.1	Aug 11, 2022		Soil	S22-Au0036072	X															X		X				
99	HA49-0-0.1	Aug 11, 2022		Soil	S22-Au0036073	X								X	X	X	X				X						

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Project ID: 63097

Eurofins Analytical Services Manager : Andrew Black

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
100	HA50-0-0.1	Aug 11, 2022		Soil	S22-Au0036074	X								X	X	X	X			X	X						
101	FRAG-01	Aug 10, 2022		Building Materials	S22-Au0036075						X																
102	FRAG-03	Aug 10, 2022		Building Materials	S22-Au0036076						X																
103	TP01-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036077						X																
104	TP02-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036078						X																
105	TP02-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036079						X																
106	TP02-1.0-1.1	Aug 09, 2022		Soil	S22-Au0036080						X																
107	TP03-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036081						X																
108	TP03-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036082						X																
109	TP03-1.4-1.5	Aug 09, 2022		Soil	S22-Au0036083						X																
110	TP04-0.4-0.5	Aug 09, 2022		Soil	S22-Au0036084						X																
111	TP04-0.5-0.7	Aug 09, 2022		Soil	S22-Au0036085						X																

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
112	TP04-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036086						X																
113	TP04-1.0-1.1	Aug 09, 2022		Soil	S22-Au0036087						X																
114	TP05-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036088						X																
115	TP05-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036089						X																
116	TP06-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036090						X																
117	TP06-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036091						X																
118	TP07-0.1-0.2	Aug 09, 2022		Soil	S22-Au0036092						X																
119	TP07-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036093						X																
120	TP08-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036094						X																
121	TP09-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036095						X																
122	TP09-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036096						X																
123	TP10-0.1-0.4	Aug 09, 2022		Soil	S22-Au0036097						X																
124	TP10-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036098						X																
125	TP10-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036099						X																

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
126	TP11-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036100						X																
127	TP11-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036101						X																
128	TP12-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036102						X																
129	TP13-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036103						X																
130	TP14-0-0.3	Aug 09, 2022		Soil	S22-Au0036104	X																					
131	TP14-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036105						X																
132	TP14-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036106						X																
133	TP15-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036107						X																
134	TP15-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036108						X																
135	TP16-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036109	X																					
136	TP16-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036110						X																
137	TP17-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036111						X																
138	TP17-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036112						X																
139	TP18-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036113						X																

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
140	TP20-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036114						X																
141	TP21-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036115						X																
142	TP21-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036116						X																
143	TP22-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036117						X																
144	TP22-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036118						X																
145	TP23-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036119						X																
146	TP23-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036120						X																
147	TP24-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036121						X																
148	TP24-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036122						X																
149	TP25-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036123						X																
150	TP25-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036124						X																
151	TP26-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036125						X																
152	TP27-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036126						X																
153	TP27-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036127						X																

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IANZ# 1290

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

Order No.:
Report #: 914805
Phone: 02 8245 0300
Fax:

Received: Aug 16, 2022 1:47 PM
Due: Aug 19, 2022
Priority: 3 Day
Contact Name: Gina Pinget

Project Name: WENTWORTH HEALTH SERVICES REDEVELOPMENT
Project ID: 63097

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25 °C)	E.coli (MPN)	HOLD	pH (at 25 °C)	Thermotolerant Coliforms (MPN)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Total Dissolved Solids Dried at 180 °C ± 2 °C
Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
154	TP27-0.2-1.0	Aug 10, 2022		Soil	S22-Au0036128						X																
155	TP28-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036129						X																
156	TP29-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036130						X																
157	TP29-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036131						X																
158	TP30-0.2-0.4	Aug 10, 2022		Soil	S22-Au0036132						X																
159	TP30-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036133						X																
160	TP30-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036134						X																
161	TP31-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036135						X																
162	TP31-0.7-0.8	Aug 10, 2022		Soil	S22-Au0036136						X																
163	TP32-0-0.2	Aug 10, 2022		Soil	S22-Au0036137	X																					
164	TP32-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036138						X																
165	TP32-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036139						X																
166	TP32-1.0-1.1	Aug 10, 2022		Soil	S22-Au0036140						X																
167	TP33-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036141						X																

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Project ID: 63097

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25 °C)	E.coli (MPN)	HOLD	pH (at 25 °C)	Thermotolerant Coliforms (MPN)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Total Dissolved Solids Dried at 180 °C ± 2 °C
Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
168	TP33-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036142						X																
169	TP33-1.0-1.1	Aug 10, 2022		Soil	S22-Au0036143						X																
170	TP34-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036144						X																
171	FRAG_TP34-0-0.2	Aug 10, 2022		Building Materials	S22-Au0036145						X																
172	TP35-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036146						X																
173	TP36-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036147						X																
174	TP36-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036148						X																
175	TP37-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036149						X																
176	TP37-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036150						X																
177	TP38-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036151						X																
178	TP38-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036152						X																
179	TP39-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036153						X																
180	TP39-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036154						X																

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Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25 °C)	E.coli (MPN)	HOLD	pH (at 25 °C)	Thermotolerant Coliforms (MPN)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Total Dissolved Solids Dried at 180 °C ± 2 °C
Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
181	TP40-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036155						X																
182	TP40-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036156						X																
183	TP41-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036157						X																
184	TP42-0.1-0.2	Aug 10, 2022		Soil	S22-Au0036158						X																
185	TP42-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036159						X																
186	HA43-0.2-0.3	Aug 11, 2022		Soil	S22-Au0036160						X																
187	HA44-0.2-0.3	Aug 11, 2022		Soil	S22-Au0036161						X																
188	HA45-0.2-0.3	Aug 11, 2022		Soil	S22-Au0036162						X																
189	BH46-0.3-0.4	Aug 11, 2022		Soil	S22-Au0036163						X																
190	BH46-0.5-0.6	Aug 11, 2022		Soil	S22-Au0036164						X																
191	HA48-0.2-0.3	Aug 11, 2022		Soil	S22-Au0036165						X																
192	HA49-0.1-0.2	Aug 11, 2022		Soil	S22-Au0036166						X																
193	HA50-0.2-0.3	Aug 11, 2022		Soil	S22-Au0036167						X																
Test Counts						55	6	2	3	6	90	3	6	16	27	27	16	1	3	11	55	5	23	3	7	1	3

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. Information identified on this report with the colour **orange** indicates sections of the report not covered by the laboratory's scope of NATA accreditation.
6. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

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

Calculations

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

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

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

Terms

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

Comments

22-Au0036057, 22-Au0036058 and 22-Au0036104: Samples received were less than the nominal 500mL as recommended in Section 4.10 of the NEPM Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater.

Sample Integrity

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

Asbestos Counter/Identifier:

Laxman Dias	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

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.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
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Attention: **Gina Pinget**

Report **914805-S**
Project name WENTWORTH HEALTH SERVICES REDEVELOPMENT
Project ID 63097
Received Date Aug 16, 2022

Client Sample ID			**QC20220809-01**	**QC20220810-01**	**QC20220811-01**	**TP01-0-0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S22-Au0035985**	**S22-Au0035986**	**S22-Au0035987**	**S22-Au0035990**
Date Sampled			**Aug 09, 2022**	**Aug 10, 2022**	**Aug 11, 2022**	**Aug 09, 2022**
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	96	-	137	125
Tetrachloro-m-xylene (surr.)	1	%	82	-	74	85
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1

Client Sample ID			QC20220809-01	QC20220810-01	QC20220811-01	TP01-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0035985	S22-Au0035986	S22-Au0035987	S22-Au0035990
Date Sampled			Aug 09, 2022	Aug 10, 2022	Aug 11, 2022	Aug 09, 2022
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1260	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	96	-	137	125
Tetrachloro-m-xylene (surr.)	1	%	82	-	74	85
% Moisture	1	%	16	8.8	8.5	8.7
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	30	-	< 20
TRH C15-C28	50	mg/kg	-	690	-	98
TRH C29-C36	50	mg/kg	-	570	-	160
TRH C10-C36 (Total)	50	mg/kg	-	1290	-	258
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	< 20
TRH >C10-C16	50	mg/kg	-	120	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	120	-	< 50
TRH >C16-C34	100	mg/kg	-	1300	-	200
TRH >C34-C40	100	mg/kg	-	450	-	120
TRH >C10-C40 (total)*	100	mg/kg	-	1870	-	320
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	60	-	103
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5

Client Sample ID			QC20220809-01	QC20220810-01	QC20220811-01	TP01-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0035985	S22-Au0035986	S22-Au0035987	S22-Au0035990
Date Sampled			Aug 09, 2022	Aug 10, 2022	Aug 11, 2022	Aug 09, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	112	110	121
p-Terphenyl-d14 (surr.)	1	%	-	108	109	118
Heavy Metals						
Arsenic	2	mg/kg	-	< 2	2.9	3.5
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	15	19	22
Copper	5	mg/kg	-	81	23	19
Lead	5	mg/kg	-	15	22	15
Mercury	0.1	mg/kg	-	0.3	0.1	< 0.1
Nickel	5	mg/kg	-	7.2	11	15
Zinc	5	mg/kg	-	66	110	52
Pathogens						
E.coli (MPN)	1	MPN/g	-	see attached	-	-
Thermotolerant Coliforms (MPN)	1	MPN/g	-	see attached	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			QC20220809-01	QC20220810-01	QC20220811-01	TP01-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0035985	S22-Au0035986	S22-Au0035987	S22-Au0035990
Date Sampled			Aug 09, 2022	Aug 10, 2022	Aug 11, 2022	Aug 09, 2022
Test/Reference	LOR	Unit				
Volatile Organics						
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	%	-	-	86	-
Toluene-d8 (surr.)	1	%	-	-	81	-

Client Sample ID			TP01-0.5-0.6	TP02-0-0.1	SS01-0-0.1	TP03-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0035992	S22-Au0035993	S22-Au0035996	S22-Au0035997
Date Sampled			Aug 09, 2022	Aug 09, 2022	Aug 09, 2022	Aug 09, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-HCH	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-HCH	0.05	mg/kg	-	< 0.05	-	< 0.05
d-HCH	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05

Client Sample ID			TP01-0.5-0.6	TP02-0-0.1	SS01-0-0.1	TP03-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0035992	S22-Au0035993	S22-Au0035996	S22-Au0035997
Date Sampled			Aug 09, 2022	Aug 09, 2022	Aug 09, 2022	Aug 09, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Toxaphene	0.5	mg/kg	-	< 0.5	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	60	-	81
Tetrachloro-m-xylene (surr.)	1	%	-	75	-	114
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	< 0.1
Total PCB*	0.1	mg/kg	-	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	60	-	81
Tetrachloro-m-xylene (surr.)	1	%	-	75	-	114
% Moisture	1	%	16	12	6.9	17
% Clay	1	%	10	-	-	-
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	640	-	-	-
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	0.1	pH Units	9.0	-	-	-
Total Organic Carbon	0.1	%	0.5	-	-	-
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	< 20	< 20
TRH C10-C14	20	mg/kg	-	-	< 20	< 20
TRH C15-C28	50	mg/kg	-	-	< 50	< 50
TRH C29-C36	50	mg/kg	-	-	81	< 50
TRH C10-C36 (Total)	50	mg/kg	-	-	81	< 50
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	-	-	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	< 20	< 20
TRH >C10-C16	50	mg/kg	-	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 50	< 50
TRH >C16-C34	100	mg/kg	-	-	< 100	< 100
TRH >C34-C40	100	mg/kg	-	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	< 100

Client Sample ID			TP01-0.5-0.6	TP02-0-0.1	SS01-0-0.1	TP03-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0035992	S22-Au0035993	S22-Au0035996	S22-Au0035997
Date Sampled			Aug 09, 2022	Aug 09, 2022	Aug 09, 2022	Aug 09, 2022
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	-	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	-	-	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	104	87
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	1.2
Acenaphthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	-	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	-	97	112
p-Terphenyl-d14 (surr.)	1	%	-	-	93	135
Heavy Metals						
Arsenic	2	mg/kg	-	-	< 2	3.5
Cadmium	0.4	mg/kg	-	-	< 0.4	< 0.4
Chromium	5	mg/kg	-	-	9.0	49
Copper	5	mg/kg	-	-	12	24
Iron	20	mg/kg	26000	-	-	-
Lead	5	mg/kg	-	-	18	18
Mercury	0.1	mg/kg	-	-	< 0.1	< 0.1
Nickel	5	mg/kg	-	-	5.6	27
Zinc	5	mg/kg	-	-	110	73
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	-

Client Sample ID			TP01-0.5-0.6	TP02-0-0.1	SS01-0-0.1	TP03-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0035992	S22-Au0035993	S22-Au0035996	S22-Au0035997
Date Sampled			Aug 09, 2022	Aug 09, 2022	Aug 09, 2022	Aug 09, 2022
Test/Reference	LOR	Unit				
Volatile Organics						
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
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	%	-	-	104	-
Toluene-d8 (surr.)	1	%	-	-	99	-

Client Sample ID			TP01-0.5-0.6	TP02-0-0.1	SS01-0-0.1	TP03-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0035992	S22-Au0035993	S22-Au0035996	S22-Au0035997
Date Sampled			Aug 09, 2022	Aug 09, 2022	Aug 09, 2022	Aug 09, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Iron (%)	0.01	%	2.6	-	-	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	32	-	-	-

Client Sample ID			TP04-0-0.1	TP05-0-0.1	TP06-0-0.1	TP07-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036000	S22-Au0036001	S22-Au0036002	S22-Au0036003
Date Sampled			Aug 09, 2022	Aug 09, 2022	Aug 09, 2022	Aug 09, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	97	113	107	109
Tetrachloro-m-xylene (surr.)	1	%	95	102	100	103
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	97	113	107	109
Tetrachloro-m-xylene (surr.)	1	%	95	102	100	103

Client Sample ID			TP04-0-0.1	TP05-0-0.1	TP06-0-0.1	TP07-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036000	S22-Au0036001	S22-Au0036002	S22-Au0036003
Date Sampled			Aug 09, 2022	Aug 09, 2022	Aug 09, 2022	Aug 09, 2022
Test/Reference	LOR	Unit				
% Moisture	1	%	8.4	13	15	10
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	< 20	-	< 20
TRH C15-C28	50	mg/kg	-	< 50	-	< 50
TRH C29-C36	50	mg/kg	-	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	< 50
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	< 50
TRH >C16-C34	100	mg/kg	-	< 100	-	< 100
TRH >C34-C40	100	mg/kg	-	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	< 100
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	94	-	95
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	107	-	105
p-Terphenyl-d14 (surr.)	1	%	-	99	-	98

Client Sample ID			TP04-0-0.1	TP05-0-0.1	TP06-0-0.1	TP07-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036000	S22-Au0036001	S22-Au0036002	S22-Au0036003
Date Sampled			Aug 09, 2022	Aug 09, 2022	Aug 09, 2022	Aug 09, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	-	7.4	-	3.3
Cadmium	0.4	mg/kg	-	< 0.4	-	< 0.4
Chromium	5	mg/kg	-	31	-	13
Copper	5	mg/kg	-	16	-	11
Lead	5	mg/kg	-	12	-	7.0
Mercury	0.1	mg/kg	-	< 0.1	-	< 0.1
Nickel	5	mg/kg	-	21	-	11
Zinc	5	mg/kg	-	47	-	31
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			TP04-0-0.1	TP05-0-0.1	TP06-0-0.1	TP07-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036000	S22-Au0036001	S22-Au0036002	S22-Au0036003
Date Sampled			Aug 09, 2022	Aug 09, 2022	Aug 09, 2022	Aug 09, 2022
Test/Reference	LOR	Unit				
Volatile Organics						
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	%	106	-	-	-
Toluene-d8 (surr.)	1	%	98	-	-	-

Client Sample ID			TP07-0.5-0.6	TP08-0-0.1	TP09-0-0.1	TP10-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036004	S22-Au0036005	S22-Au0036007	S22-Au0036008
Date Sampled			Aug 09, 2022	Aug 09, 2022	Aug 09, 2022	Aug 09, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05

Client Sample ID			TP07-0.5-0.6	TP08-0-0.1	TP09-0-0.1	TP10-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036004	S22-Au0036005	S22-Au0036007	S22-Au0036008
Date Sampled			Aug 09, 2022	Aug 09, 2022	Aug 09, 2022	Aug 09, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	-	108	105	118
Tetrachloro-m-xylene (surr.)	1	%	-	104	100	92
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	-	108	105	118
Tetrachloro-m-xylene (surr.)	1	%	-	104	100	92
% Moisture	1	%	9.6	12	14	7.3
% Clay	1	%	6.6	-	-	-
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	1300	-	-	-
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	0.1	pH Units	8.2	-	-	-
Total Organic Carbon	0.1	%	0.2	-	-	-
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	%	-	-	-	104
p-Terphenyl-d14 (surr.)	1	%	-	-	-	94

Client Sample ID			TP07-0.5-0.6	TP08-0-0.1	TP09-0-0.1	TP10-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036004	S22-Au0036005	S22-Au0036007	S22-Au0036008
Date Sampled			Aug 09, 2022	Aug 09, 2022	Aug 09, 2022	Aug 09, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	-	-	-	4.9
Cadmium	0.4	mg/kg	-	-	-	< 0.4
Chromium	5	mg/kg	-	-	-	13
Copper	5	mg/kg	-	-	-	11
Iron	20	mg/kg	23000	-	-	-
Lead	5	mg/kg	-	-	-	5.2
Mercury	0.1	mg/kg	-	-	-	< 0.1
Nickel	5	mg/kg	-	-	-	11
Zinc	5	mg/kg	-	-	-	21
Heavy Metals						
Iron (%)	0.01	%	2.3	-	-	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	29	-	-	-

Client Sample ID			TP11-0-0.1	TP12-0-0.1	TP13-0-0.1	TP14-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036010	S22-Au0036011	S22-Au0036012	S22-Au0036013
Date Sampled			Aug 09, 2022	Aug 09, 2022	Aug 09, 2022	Aug 09, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	-
a-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
b-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
d-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	-
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	101	98	-	-
Tetrachloro-m-xylene (surr.)	1	%	97	98	-	-

Client Sample ID			TP11-0-0.1	TP12-0-0.1	TP13-0-0.1	TP14-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036010	S22-Au0036011	S22-Au0036012	S22-Au0036013
Date Sampled			Aug 09, 2022	Aug 09, 2022	Aug 09, 2022	Aug 09, 2022
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	-	-
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	101	98	-	-
Tetrachloro-m-xylene (surr.)	1	%	97	98	-	-
% Moisture	1	%	13	11	16	12
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
TRH C10-C14	20	mg/kg	< 20	-	83	-
TRH C15-C28	50	mg/kg	< 50	-	< 50	-
TRH C29-C36	50	mg/kg	< 50	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	83	-
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	-
TRH >C10-C16	50	mg/kg	< 50	-	56	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	56	-
TRH >C16-C34	100	mg/kg	< 100	-	< 100	-
TRH >C34-C40	100	mg/kg	< 100	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	105	-	92	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5

Client Sample ID			TP11-0-0.1	TP12-0-0.1	TP13-0-0.1	TP14-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036010	S22-Au0036011	S22-Au0036012	S22-Au0036013
Date Sampled			Aug 09, 2022	Aug 09, 2022	Aug 09, 2022	Aug 09, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	98	-	104	98
p-Terphenyl-d14 (surr.)	1	%	92	-	96	91
Heavy Metals						
Arsenic	2	mg/kg	4.7	-	3.3	3.0
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	29	-	29	24
Copper	5	mg/kg	14	-	14	13
Lead	5	mg/kg	9.7	-	11	15
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	16	-	16	15
Zinc	5	mg/kg	49	-	47	46
Pathogens						
E.coli (MPN)	1	MPN/g	-	-	-	see attached
Thermotolerant Coliforms (MPN)	1	MPN/g	-	-	-	see attached

Client Sample ID			TP15-0-0.1	TP16-0-0.1	TP17-0-0.1	TP18-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036015	S22-Au0036017	S22-Au0036019	S22-Au0036020
Date Sampled			Aug 09, 2022	Aug 09, 2022	Aug 10, 2022	Aug 10, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-HCH	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-HCH	0.05	mg/kg	< 0.05	-	-	-
d-HCH	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-

Client Sample ID			TP15-0-0.1	TP16-0-0.1	TP17-0-0.1	TP18-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036015	S22-Au0036017	S22-Au0036019	S22-Au0036020
Date Sampled			Aug 09, 2022	Aug 09, 2022	Aug 10, 2022	Aug 10, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Methoxychlor	0.05	mg/kg	< 0.05	-	-	-
Toxaphene	0.5	mg/kg	< 0.5	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchlorendate (surr.)	1	%	109	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	100	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	-	-
Total PCB*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchlorendate (surr.)	1	%	109	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	100	-	-	-
% Moisture	1	%	11	9.6	8.0	6.3
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	< 20	-	< 20
TRH C15-C28	50	mg/kg	-	< 50	-	< 50
TRH C29-C36	50	mg/kg	-	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	< 50
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	< 50
TRH >C16-C34	100	mg/kg	-	< 100	-	< 100
TRH >C34-C40	100	mg/kg	-	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	< 100
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	83	-	95
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5

Client Sample ID			TP15-0-0.1	TP16-0-0.1	TP17-0-0.1	TP18-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036015	S22-Au0036017	S22-Au0036019	S22-Au0036020
Date Sampled			Aug 09, 2022	Aug 09, 2022	Aug 10, 2022	Aug 10, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	104	102	111
p-Terphenyl-d14 (surr.)	1	%	-	97	97	97
Heavy Metals						
Arsenic	2	mg/kg	-	3.0	3.1	3.5
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	17	25	18
Copper	5	mg/kg	-	10	12	11
Lead	5	mg/kg	-	12	13	24
Mercury	0.1	mg/kg	-	0.7	< 0.1	< 0.1
Nickel	5	mg/kg	-	11	15	13
Zinc	5	mg/kg	-	40	48	38
Pathogens						
E.coli (MPN)	1	MPN/g	-	-	-	see attached
Thermotolerant Coliforms (MPN)	1	MPN/g	-	-	-	see attached

Client Sample ID			TP19-0.3-0.4	TP20-0-0.1	TP23-0-0.1	TP24-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036023	S22-Au0036024	S22-Au0036027	S22-Au0036028
Date Sampled			Aug 10, 2022	Aug 10, 2022	Aug 10, 2022	Aug 10, 2022
Test/Reference	LOR	Unit				
% Moisture	1	%	15	15	9.7	9.2
% Clay	1	%	14	-	-	-
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	420	-	-	-
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	0.1	pH Units	8.1	-	-	-
Total Organic Carbon	0.1	%	0.3	-	-	-
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	-	< 20	< 20	22
TRH C15-C28	50	mg/kg	-	< 50	75	390
TRH C29-C36	50	mg/kg	-	< 50	110	300

Client Sample ID			TP19-0.3-0.4	TP20-0-0.1	TP23-0-0.1	TP24-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036023	S22-Au0036024	S22-Au0036027	S22-Au0036028
Date Sampled			Aug 10, 2022	Aug 10, 2022	Aug 10, 2022	Aug 10, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C10-C36 (Total)	50	mg/kg	-	< 50	185	712
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	-	< 50	< 50	65
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	< 50	65
TRH >C16-C34	100	mg/kg	-	< 100	140	750
TRH >C34-C40	100	mg/kg	-	< 100	< 100	250
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	140	1065
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	91	97	68
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	104	105	99
p-Terphenyl-d14 (surr.)	1	%	-	128	109	113
Heavy Metals						
Arsenic	2	mg/kg	-	3.6	2.7	< 2
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	26	22	9.9
Copper	5	mg/kg	-	16	27	15
Iron	20	mg/kg	30000	-	-	-
Lead	5	mg/kg	-	37	61	7.6
Mercury	0.1	mg/kg	-	0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	17	8.3	6.3
Zinc	5	mg/kg	-	130	1400	44

Client Sample ID			TP19-0.3-0.4	TP20-0-0.1	TP23-0-0.1	TP24-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036023	S22-Au0036024	S22-Au0036027	S22-Au0036028
Date Sampled			Aug 10, 2022	Aug 10, 2022	Aug 10, 2022	Aug 10, 2022
Test/Reference	LOR	Unit				
Pathogens						
E.coli (MPN)	1	MPN/g	-	-	see attached	see attached
Thermotolerant Coliforms (MPN)	1	MPN/g	-	-	see attached	see attached
Heavy Metals						
Iron (%)	0.01	%	3.0	-	-	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	28	-	-	-

Client Sample ID			TP25-0-0.1	TP25-0.2-0.25	TP26-0-0.1	TP26-0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036030	S22-Au0036031	S22-Au0036032	S22-Au0036033
Date Sampled			Aug 10, 2022	Aug 10, 2022	Aug 10, 2022	Aug 10, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	-
a-HCH	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-HCH	0.05	mg/kg	< 0.05	-	< 0.05	-
d-HCH	0.05	mg/kg	< 0.05	-	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Toxaphene	0.5	mg/kg	< 0.5	-	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	93	-	89	-
Tetrachloro-m-xylene (surr.)	1	%	94	-	120	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	< 0.1	-

Client Sample ID			TP25-0-0.1	TP25-0.2-0.25	TP26-0-0.1	TP26-0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036030	S22-Au0036031	S22-Au0036032	S22-Au0036033
Date Sampled			Aug 10, 2022	Aug 10, 2022	Aug 10, 2022	Aug 10, 2022
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1260	0.1	mg/kg	< 0.1	-	< 0.1	-
Total PCB*	0.1	mg/kg	< 0.1	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	93	-	89	-
Tetrachloro-m-xylene (surr.)	1	%	94	-	120	-
% Moisture	1	%	9.0	7.2	12	16
% Clay	1	%	-	-	-	9.5
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	-	-	-	32
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	0.1	pH Units	-	-	-	8.1
Total Organic Carbon	0.1	%	-	-	-	0.3
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	-	-
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	-
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	-	-
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	%	-	74	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	-

Client Sample ID			TP25-0-0.1	TP25-0.2-0.25	TP26-0-0.1	TP26-0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036030	S22-Au0036031	S22-Au0036032	S22-Au0036033
Date Sampled			Aug 10, 2022	Aug 10, 2022	Aug 10, 2022	Aug 10, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	95	96	-	-
p-Terphenyl-d14 (surr.)	1	%	92	103	-	-
Heavy Metals						
Arsenic	2	mg/kg	4.2	3.2	-	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	-
Chromium	5	mg/kg	17	6.7	-	-
Copper	5	mg/kg	15	7.6	-	-
Iron	20	mg/kg	-	-	-	28000
Lead	5	mg/kg	210	61	-	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	-
Nickel	5	mg/kg	11	< 5	-	-
Zinc	5	mg/kg	240	58	-	-
Heavy Metals						
Iron (%)	0.01	%	-	-	-	2.8
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	-	-	28

Client Sample ID			TP27-0-0.1	TP28-0-0.1	TP29-0-0.1	TP30-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036034	S22-Au0036037	S22-Au0036038	S22-Au0036041
Date Sampled			Aug 10, 2022	Aug 10, 2022	Aug 10, 2022	Aug 10, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			TP27-0-0.1	TP28-0-0.1	TP29-0-0.1	TP30-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036034	S22-Au0036037	S22-Au0036038	S22-Au0036041
Date Sampled			Aug 10, 2022	Aug 10, 2022	Aug 10, 2022	Aug 10, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	72	78	114	110
Tetrachloro-m-xylene (surr.)	1	%	121	112	94	126
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	72	78	114	110
Tetrachloro-m-xylene (surr.)	1	%	121	112	94	126
% Moisture	1	%	9.8	9.9	6.5	7.9
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	-	-
TRH C10-C14	20	mg/kg	-	57	-	-
TRH C15-C28	50	mg/kg	-	60	-	-
TRH C29-C36	50	mg/kg	-	80	-	-
TRH C10-C36 (Total)	50	mg/kg	-	197	-	-
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	-
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	-	-
TRH >C16-C34	100	mg/kg	-	110	-	-
TRH >C34-C40	100	mg/kg	-	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	-	110	-	-
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	%	-	64	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	-	< 0.5

Client Sample ID			TP27-0-0.1	TP28-0-0.1	TP29-0-0.1	TP30-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036034	S22-Au0036037	S22-Au0036038	S22-Au0036041
Date Sampled			Aug 10, 2022	Aug 10, 2022	Aug 10, 2022	Aug 10, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	116	-	133
p-Terphenyl-d14 (surr.)	1	%	-	93	-	109
Heavy Metals						
Arsenic	2	mg/kg	-	2.6	-	3.2
Cadmium	0.4	mg/kg	-	< 0.4	-	< 0.4
Chromium	5	mg/kg	-	18	-	20
Copper	5	mg/kg	-	8.5	-	13
Lead	5	mg/kg	-	15	-	24
Mercury	0.1	mg/kg	-	< 0.1	-	< 0.1
Nickel	5	mg/kg	-	11	-	13
Zinc	5	mg/kg	-	37	-	61

Client Sample ID			TP31-0-0.1	TP32-0-0.1	TP33-0-0.1	TP34-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036042	S22-Au0036044	S22-Au0036048	S22-Au0036052
Date Sampled			Aug 10, 2022	Aug 10, 2022	Aug 10, 2022	Aug 10, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-

Client Sample ID			TP31-0-0.1	TP32-0-0.1	TP33-0-0.1	TP34-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036042	S22-Au0036044	S22-Au0036048	S22-Au0036052
Date Sampled			Aug 10, 2022	Aug 10, 2022	Aug 10, 2022	Aug 10, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Dibutylchlorendate (surr.)	1	%	59	95	96	-
Tetrachloro-m-xylene (surr.)	1	%	117	98	99	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Dibutylchlorendate (surr.)	1	%	59	95	96	-
Tetrachloro-m-xylene (surr.)	1	%	117	98	99	-
% Moisture	1	%	11	7.5	14	20
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	< 20	-	< 20
TRH C15-C28	50	mg/kg	-	< 50	-	< 50
TRH C29-C36	50	mg/kg	-	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	< 50
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	< 50
TRH >C16-C34	100	mg/kg	-	< 100	-	< 100
TRH >C34-C40	100	mg/kg	-	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	< 100
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	98	-	54

Client Sample ID			TP31-0-0.1	TP32-0-0.1	TP33-0-0.1	TP34-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036042	S22-Au0036044	S22-Au0036048	S22-Au0036052
Date Sampled			Aug 10, 2022	Aug 10, 2022	Aug 10, 2022	Aug 10, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	106	-	103
p-Terphenyl-d14 (surr.)	1	%	-	105	-	104
Heavy Metals						
Arsenic	2	mg/kg	-	3.7	-	5.0
Cadmium	0.4	mg/kg	-	< 0.4	-	< 0.4
Chromium	5	mg/kg	-	23	-	29
Copper	5	mg/kg	-	12	-	26
Lead	5	mg/kg	-	14	-	26
Mercury	0.1	mg/kg	-	< 0.1	-	< 0.1
Nickel	5	mg/kg	-	14	-	19
Zinc	5	mg/kg	-	44	-	130
Pathogens						
E.coli (MPN)	1	MPN/g	-	-	-	see attached
Thermotolerant Coliforms (MPN)	1	MPN/g	-	-	-	see attached
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			TP31-0-0.1	TP32-0-0.1	TP33-0-0.1	TP34-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036042	S22-Au0036044	S22-Au0036048	S22-Au0036052
Date Sampled			Aug 10, 2022	Aug 10, 2022	Aug 10, 2022	Aug 10, 2022
Test/Reference	LOR	Unit				
Volatile Organics						
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	%	77	-	-	-
Toluene-d8 (surr.)	1	%	75	-	-	-

Client Sample ID			TP35-0-0.1	TP35-0.5-0.6	TP37-0-0.1	TP39-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036054	S22-Au0036055	S22-Au0036057	S22-Au0036060
Date Sampled			Aug 10, 2022	Aug 10, 2022	Aug 10, 2022	Aug 10, 2022
Test/Reference	LOR	Unit				
% Moisture	1	%	14	15	17	12
% Clay	1	%	-	9.6	-	-
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	-	1800	-	-
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	0.1	pH Units	-	6.6	-	-
Total Organic Carbon	0.1	%	-	0.5	-	-
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	-
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5	-
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	-
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	%	-	-	105	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	105	-	110	122
p-Terphenyl-d14 (surr.)	1	%	114	-	146	141

Client Sample ID			TP35-0-0.1	TP35-0.5-0.6	TP37-0-0.1	TP39-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036054	S22-Au0036055	S22-Au0036057	S22-Au0036060
Date Sampled			Aug 10, 2022	Aug 10, 2022	Aug 10, 2022	Aug 10, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	3.4	-	3.3	3.6
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	35	-	36	27
Copper	5	mg/kg	18	-	19	15
Iron	20	mg/kg	-	30000	-	-
Lead	5	mg/kg	36	-	20	14
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	22	-	21	18
Zinc	5	mg/kg	94	-	69	51
Heavy Metals						
Iron (%)	0.01	%	-	3.0	-	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	17	-	-

Client Sample ID			TP40-0-0.1	TP41-0-0.1	TP42-0-0.1	HA43-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036062	S22-Au0036063	S22-Au0036065	S22-Au0036066
Date Sampled			Aug 10, 2022	Aug 10, 2022	Aug 10, 2022	Aug 11, 2022
Test/Reference	LOR	Unit				
% Moisture	1	%	6.0	12	6.7	15
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
TRH C10-C14	20	mg/kg	< 20	-	< 20	-
TRH C15-C28	50	mg/kg	< 50	-	< 50	-
TRH C29-C36	50	mg/kg	< 50	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	-
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	-
TRH >C10-C16	50	mg/kg	< 50	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	-
TRH >C16-C34	100	mg/kg	< 100	-	< 100	-
TRH >C34-C40	100	mg/kg	< 100	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	80	-	105	-

Client Sample ID			TP40-0-0.1	TP41-0-0.1	TP42-0-0.1	HA43-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036062	S22-Au0036063	S22-Au0036065	S22-Au0036066
Date Sampled			Aug 10, 2022	Aug 10, 2022	Aug 10, 2022	Aug 11, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	121	125	93	122
p-Terphenyl-d14 (surr.)	1	%	132	101	76	87
Heavy Metals						
Arsenic	2	mg/kg	2.1	2.4	2.9	8.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	15	20	7.5	21
Copper	5	mg/kg	8.4	12	11	14
Lead	5	mg/kg	9.6	33	< 5	27
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	9.9	15	8.4	14
Zinc	5	mg/kg	35	67	9.9	86
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			TP40-0-0.1	TP41-0-0.1	TP42-0-0.1	HA43-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036062	S22-Au0036063	S22-Au0036065	S22-Au0036066
Date Sampled			Aug 10, 2022	Aug 10, 2022	Aug 10, 2022	Aug 11, 2022
Test/Reference	LOR	Unit				
Volatile Organics						
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	%	-	-	105	-
Toluene-d8 (surr.)	1	%	-	-	103	-

Client Sample ID			HA44-0-0.1	HA45-0-0.1	BH46-0-0.1	HA47-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036067	S22-Au0036068	S22-Au0036069	S22-Au0036071
Date Sampled			Aug 11, 2022	Aug 11, 2022	Aug 11, 2022	Aug 11, 2022
Test/Reference	LOR	Unit				
% Moisture	1	%	5.8	10	6.6	11
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	0.6	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	0.6	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	117	128	120	116
p-Terphenyl-d14 (surr.)	1	%	123	133	137	126
Heavy Metals						
Arsenic	2	mg/kg	< 2	3.5	2.5	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	19	15	< 5
Copper	5	mg/kg	< 5	22	16	34
Lead	5	mg/kg	40	24	56	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	13	12	< 5
Zinc	5	mg/kg	14	120	130	110

Client Sample ID			HA48-0-0.1	HA49-0-0.1	HA50-0-0.1
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036072	S22-Au0036073	S22-Au0036074
Date Sampled			Aug 11, 2022	Aug 11, 2022	Aug 11, 2022
Test/Reference	LOR	Unit			
Organochlorine Pesticides					
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05
a-HCH	0.05	mg/kg	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05
b-HCH	0.05	mg/kg	-	< 0.05	< 0.05

Client Sample ID			HA48-0-0.1	HA49-0-0.1	HA50-0-0.1
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036072	S22-Au0036073	S22-Au0036074
Date Sampled			Aug 11, 2022	Aug 11, 2022	Aug 11, 2022
Test/Reference	LOR	Unit			
Organochlorine Pesticides					
d-HCH	0.05	mg/kg	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	-	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	-	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	-	92	105
Tetrachloro-m-xylene (surr.)	1	%	-	109	118
Polychlorinated Biphenyls					
Aroclor-1016	0.1	mg/kg	-	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	-	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	-	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	-	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	-	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	-	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	-	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	-	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	-	92	105
Tetrachloro-m-xylene (surr.)	1	%	-	109	118
% Moisture	1	%	7.5	21	11
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	-	-
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-
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	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-

Client Sample ID			HA48-0-0.1	HA49-0-0.1	HA50-0-0.1
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036072	S22-Au0036073	S22-Au0036074
Date Sampled			Aug 11, 2022	Aug 11, 2022	Aug 11, 2022
Test/Reference	LOR	Unit			
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	%	58	-	-
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	123	114	121
p-Terphenyl-d14 (surr.)	1	%	137	140	145
Heavy Metals					
Arsenic	2	mg/kg	2.2	3.5	3.4
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	11	14	20
Copper	5	mg/kg	17	21	26
Lead	5	mg/kg	27	140	24
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.2
Nickel	5	mg/kg	7.7	9.3	12
Zinc	5	mg/kg	130	120	130
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

Client Sample ID			HA48-0-0.1	HA49-0-0.1	HA50-0-0.1
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S22-Au0036072	S22-Au0036073	S22-Au0036074
Date Sampled			Aug 11, 2022	Aug 11, 2022	Aug 11, 2022
Test/Reference	LOR	Unit			
Volatile Organics					
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	< 0.1
Iodomethane	0.5	mg/kg	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	< 0.5
o-Xylene	0.1	mg/kg	-	-	< 0.1
Styrene	0.5	mg/kg	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5
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	%	-	-	109
Toluene-d8 (surr.)	1	%	-	-	101

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
Organochlorine Pesticides	Sydney	Aug 18, 2022	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Aug 18, 2022	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Volatile Organics	Sydney	Aug 18, 2022	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
% Moisture	Sydney	Aug 16, 2022	14 Days
- Method: LTM-GEN-7080 Moisture			
NEPM Screen for Soil Classification			
% Clay	Brisbane	Aug 18, 2022	14 Days
- Method: LTM-GEN-7040			
Conductivity (1:5 aqueous extract at 25 °C as rec.)	Sydney	Aug 18, 2022	7 Days
- Method: LTM-INO-4030 Conductivity			
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	Sydney	Aug 18, 2022	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Total Organic Carbon	Melbourne	Aug 18, 2022	28 Days
- Method: LTM-INO-4060 Total Organic Carbon in water and soil			
Heavy Metals	Sydney	Aug 18, 2022	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Cation Exchange Capacity	Melbourne	Aug 18, 2022	28 Days
- Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Aug 18, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Aug 18, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Aug 18, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Aug 18, 2022	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Polycyclic Aromatic Hydrocarbons	Sydney	Aug 18, 2022	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Aug 18, 2022	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			

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Order No.:
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Phone: 02 8245 0300
Fax:

Received: Aug 16, 2022 1:47 PM
Due: Aug 19, 2022
Priority: 3 Day
Contact Name: Gina Pinget

Project Name: WENTWORTH HEALTH SERVICES REDEVELOPMENT
Project ID: 63097

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25 °C)	E.coli (MPN)	HOLD	pH (at 25 °C)	Thermotolerant Coliforms (MPN)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Total Dissolved Solids Dried at 180 °C ± 2 °C
Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
External Laboratory										X			X														
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																						
1	RIN20220811	Aug 11, 2022		Water	S22-Au0034365			X																			
2	TRIP BLANK	Aug 12, 2022		Water	S22-Au0035976													X									
3	TRIP SPIKE	Aug 12, 2022		Water	S22-Au0035977																					X	
4	BLANK	Aug 12, 2022		Water	S22-Au0035978																				X		
5	RIN20220811-W	Aug 11, 2022		Water	S22-Au0035979										X	X				X			X		X		
6	QC-MW	Aug 11, 2022		Water	S22-Au0035980				X			X							X	X				X	X		X
7	MW03	Aug 11, 2022		Water	S22-Au0035981				X			X							X	X				X	X		X
8	MW04	Aug 11, 2022		Water	S22-Au0035982				X			X							X	X				X	X		X
9	FRAG-02	Aug 10, 2022		Building Materials	S22-Au0035983		X																				
10	FRAG-04	Aug 11, 2022		Building	S22-Au0035984		X																				

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Order No.:
Report #: 914805
Phone: 02 8245 0300
Fax:

Received: Aug 16, 2022 1:47 PM
Due: Aug 19, 2022
Priority: 3 Day
Contact Name: Gina Pinget

Project Name: WENTWORTH HEALTH SERVICES REDEVELOPMENT
Project ID: 63097

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25 °C)	E.coli (MPN)	HOLD	pH (at 25 °C)	Thermotolerant Coliforms (MPN)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Total Dissolved Solids Dried at 180 °C ± 2 °C
Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
				Materials																							
11	QC20220809-01	Aug 09, 2022		Soil	S22-Au0035985	X									X	X					X						
12	QC20220810-01	Aug 10, 2022		Soil	S22-Au0035986	X				X			X								X		X				
13	QC20220811-01	Aug 11, 2022		Soil	S22-Au0035987	X								X	X	X	X			X	X						
14	HP01	Aug 11, 2022		Water	S22-Au0035988																				X		
15	HP02	Aug 11, 2022		Water	S22-Au0035989																				X		
16	TP01-0-0.1	Aug 09, 2022		Soil	S22-Au0035990										X	X					X		X				
17	TP01-0-0.3	Aug 09, 2022		Soil	S22-Au0035991	X																					
18	TP01-0.5-0.6	Aug 09, 2022		Soil	S22-Au0035992																X	X					
19	TP02-0-0.1	Aug 09, 2022		Soil	S22-Au0035993										X	X					X						
20	TP02-0-0.4	Aug 09, 2022		Soil	S22-Au0035994	X																					
21	RIN20220811-	Aug 11, 2022		Water	S22-Au0035995															X			X				

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
21	RIN20220811-S	Aug 11, 2022		Water	S22-Au0035995																						
22	SS01-0-0.1	Aug 09, 2022		Soil	S22-Au0035996															X	X		X				
23	TP03-0-0.1	Aug 09, 2022		Soil	S22-Au0035997										X	X					X		X				
24	TP03-0-1.0	Aug 09, 2022		Soil	S22-Au0035998	X																					
25	TP04-0-0.4	Aug 09, 2022		Soil	S22-Au0035999	X																					
26	TP04-0-0.1	Aug 09, 2022		Soil	S22-Au0036000										X	X				X	X						
27	TP05-0-0.1	Aug 09, 2022		Soil	S22-Au0036001	X									X	X					X		X				
28	TP06-0-0.1	Aug 09, 2022		Soil	S22-Au0036002	X									X	X					X						
29	TP07-0-0.1	Aug 09, 2022		Soil	S22-Au0036003	X									X	X					X		X				
30	TP07-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036004																X	X					
31	TP08-0-0.1	Aug 09, 2022		Soil	S22-Au0036005	X									X	X					X						
32	TP09-0-0.2	Aug 09, 2022		Soil	S22-Au0036006	X																					
33	TP09-0-0.1	Aug 09, 2022		Soil	S22-Au0036007										X	X					X						

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
34	TP10-0-0.1	Aug 09, 2022		Soil	S22-Au0036008	X								X	X	X	X				X						
35	TP11-0-0.2	Aug 09, 2022		Soil	S22-Au0036009	X																					
36	TP11-0-0.1	Aug 09, 2022		Soil	S22-Au0036010										X	X					X		X				
37	TP12-0-0.1	Aug 09, 2022		Soil	S22-Au0036011	X									X	X					X						
38	TP13-0-0.1	Aug 09, 2022		Soil	S22-Au0036012	X															X		X				
39	TP14-0-0.1	Aug 09, 2022		Soil	S22-Au0036013					X			X	X			X				X						
40	TP15-0-0.2	Aug 09, 2022		Soil	S22-Au0036014	X																					
41	TP15-0-0.1	Aug 09, 2022		Soil	S22-Au0036015										X	X					X						
42	TP16-0-0.5	Aug 09, 2022		Soil	S22-Au0036016			X																			
43	TP16-0-0.1	Aug 09, 2022		Soil	S22-Au0036017																X		X				
44	TP17-0-0.3	Aug 10, 2022		Soil	S22-Au0036018	X																					
45	TP17-0-0.1	Aug 10, 2022		Soil	S22-Au0036019									X			X				X						
46	TP18-0-0.1	Aug 10, 2022		Soil	S22-Au0036020					X			X								X		X				
47	TP18-0-0.2	Aug 10, 2022		Soil	S22-Au0036021	X																					

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
48	TP19-0-0.1	Aug 10, 2022		Soil	S22-Au0036022	X																					
49	TP19-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036023																X	X					
50	TP20-0-0.1	Aug 10, 2022		Soil	S22-Au0036024	X															X		X				
51	TP21-0-0.1	Aug 10, 2022		Soil	S22-Au0036025	X																					
52	TP22-0-0.1	Aug 10, 2022		Soil	S22-Au0036026	X																					
53	TP23-0-0.1	Aug 10, 2022		Soil	S22-Au0036027	X				X			X								X		X				
54	TP24-0-0.1	Aug 10, 2022		Soil	S22-Au0036028	X				X			X								X		X				
55	TP25-0-0.2	Aug 10, 2022		Soil	S22-Au0036029	X																					
56	TP25-0-0.1	Aug 10, 2022		Soil	S22-Au0036030									X	X	X	X				X						
57	TP25-0.2-0.25	Aug 10, 2022		Soil	S22-Au0036031																X		X				
58	TP26-0-0.1	Aug 10, 2022		Soil	S22-Au0036032	X									X	X					X						
59	TP26-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036033																X	X					
60	TP27-0-0.1	Aug 10, 2022		Soil	S22-Au0036034										X	X					X						
61	TP27-0-0.2	Aug 10, 2022		Soil	S22-Au0036035	X																					

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
62	TP28-0-0.4	Aug 10, 2022		Soil	S22-Au0036036	X																					
63	TP28-0-0.1	Aug 10, 2022		Soil	S22-Au0036037										X	X					X		X				
64	TP29-0-0.1	Aug 10, 2022		Soil	S22-Au0036038										X	X					X						
65	TP29-0-0.2	Aug 10, 2022		Soil	S22-Au0036039	X																					
66	TP30-0-0.2	Aug 10, 2022		Soil	S22-Au0036040	X																					
67	TP30-0-0.1	Aug 10, 2022		Soil	S22-Au0036041									X	X	X	X				X						
68	TP31-0-0.1	Aug 10, 2022		Soil	S22-Au0036042	X									X	X				X	X						
69	FRAG_TP32-0.5-0.7	Aug 10, 2022		Building Materials	S22-Au0036043		X																				
70	TP32-0-0.1	Aug 10, 2022		Soil	S22-Au0036044										X	X					X		X				
71	TP32-0.2-0.5	Aug 10, 2022		Soil	S22-Au0036045	X																					
72	TP32-0.5-0.7	Aug 10, 2022		Soil	S22-Au0036046	X																					
73	TP33-0-0.4	Aug 10, 2022		Soil	S22-Au0036047	X																					
74	TP33-0-0.1	Aug 10, 2022		Soil	S22-Au0036048										X	X					X						

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Order No.:
Report #: 914805
Phone: 02 8245 0300
Fax:

Received: Aug 16, 2022 1:47 PM
Due: Aug 19, 2022
Priority: 3 Day
Contact Name: Gina Pinget

Project Name: WENTWORTH HEALTH SERVICES REDEVELOPMENT
Project ID: 63097

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25 °C)	E.coli (MPN)	HOLD	pH (at 25 °C)	Thermotolerant Coliforms (MPN)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Total Dissolved Solids Dried at 180 °C ± 2 °C
Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
75	TP33-0.4-0.7	Aug 10, 2022		Soil	S22-Au0036049	X																					
76	FRAG_TP03-0-0.4	Aug 09, 2022		Building Materials	S22-Au0036050		X																				
77	FRAG_TP33-0-0.1	Aug 10, 2022		Building Materials	S22-Au0036051		X																				
78	TP34-0-0.1	Aug 10, 2022		Soil	S22-Au0036052					X			X								X		X				
79	TP34-0-0.4	Aug 10, 2022		Soil	S22-Au0036053	X																					
80	TP35-0-0.1	Aug 10, 2022		Soil	S22-Au0036054									X			X				X						
81	TP35-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036055																X	X					
82	TP36-0-0.1	Aug 10, 2022		Soil	S22-Au0036056	X																					
83	TP37-0-0.1	Aug 10, 2022		Soil	S22-Au0036057	X															X		X				
84	TP38-0-0.1	Aug 10, 2022		Soil	S22-Au0036058	X																					
85	TP39-0-0.3	Aug 10, 2022		Soil	S22-Au0036059	X																					
86	TP39-0-0.1	Aug 10, 2022		Soil	S22-Au0036060									X			X				X						

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Eurofins Analytical Services Manager : Andrew Black

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
87	TP40-0-0.2	Aug 10, 2022		Soil	S22-Au0036061	X																					
88	TP40-0-0.1	Aug 10, 2022		Soil	S22-Au0036062																X		X				
89	TP41-0-0.1	Aug 10, 2022		Soil	S22-Au0036063	X								X			X				X						
90	FRAG_TP41-0-0.1	Aug 10, 2022		Building Materials	S22-Au0036064		X																				
91	TP42-0-0.1	Aug 10, 2022		Soil	S22-Au0036065	X														X	X		X				
92	HA43-0-0.1	Aug 11, 2022		Soil	S22-Au0036066	X								X			X				X						
93	HA44-0-0.1	Aug 11, 2022		Soil	S22-Au0036067	X								X			X				X						
94	HA45-0-0.1	Aug 11, 2022		Soil	S22-Au0036068	X								X			X				X						
95	BH46-0-0.1	Aug 11, 2022		Soil	S22-Au0036069	X								X			X				X						
96	HA47-0-0.2	Aug 11, 2022		Soil	S22-Au0036070	X																					
97	HA47-0-0.1	Aug 11, 2022		Soil	S22-Au0036071									X			X				X						
98	HA48-0-0.1	Aug 11, 2022		Soil	S22-Au0036072	X															X		X				
99	HA49-0-0.1	Aug 11, 2022		Soil	S22-Au0036073	X								X	X	X	X				X						

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Project ID: 63097

Eurofins Analytical Services Manager : Andrew Black

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
100	HA50-0-0.1	Aug 11, 2022		Soil	S22-Au0036074	X								X	X	X	X			X	X						
101	FRAG-01	Aug 10, 2022		Building Materials	S22-Au0036075						X																
102	FRAG-03	Aug 10, 2022		Building Materials	S22-Au0036076						X																
103	TP01-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036077						X																
104	TP02-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036078						X																
105	TP02-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036079						X																
106	TP02-1.0-1.1	Aug 09, 2022		Soil	S22-Au0036080						X																
107	TP03-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036081						X																
108	TP03-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036082						X																
109	TP03-1.4-1.5	Aug 09, 2022		Soil	S22-Au0036083						X																
110	TP04-0.4-0.5	Aug 09, 2022		Soil	S22-Au0036084						X																
111	TP04-0.5-0.7	Aug 09, 2022		Soil	S22-Au0036085						X																

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
112	TP04-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036086						X																
113	TP04-1.0-1.1	Aug 09, 2022		Soil	S22-Au0036087						X																
114	TP05-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036088						X																
115	TP05-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036089						X																
116	TP06-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036090						X																
117	TP06-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036091						X																
118	TP07-0.1-0.2	Aug 09, 2022		Soil	S22-Au0036092						X																
119	TP07-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036093						X																
120	TP08-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036094						X																
121	TP09-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036095						X																
122	TP09-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036096						X																
123	TP10-0.1-0.4	Aug 09, 2022		Soil	S22-Au0036097						X																
124	TP10-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036098						X																
125	TP10-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036099						X																

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
126	TP11-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036100						X																
127	TP11-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036101						X																
128	TP12-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036102						X																
129	TP13-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036103						X																
130	TP14-0-0.3	Aug 09, 2022		Soil	S22-Au0036104	X																					
131	TP14-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036105						X																
132	TP14-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036106						X																
133	TP15-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036107						X																
134	TP15-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036108						X																
135	TP16-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036109	X																					
136	TP16-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036110						X																
137	TP17-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036111						X																
138	TP17-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036112						X																
139	TP18-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036113						X																

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
140	TP20-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036114						X																
141	TP21-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036115						X																
142	TP21-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036116						X																
143	TP22-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036117						X																
144	TP22-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036118						X																
145	TP23-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036119						X																
146	TP23-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036120						X																
147	TP24-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036121						X																
148	TP24-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036122						X																
149	TP25-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036123						X																
150	TP25-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036124						X																
151	TP26-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036125						X																
152	TP27-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036126						X																
153	TP27-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036127						X																

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

Order No.:
Report #: 914805
Phone: 02 8245 0300
Fax:

Received: Aug 16, 2022 1:47 PM
Due: Aug 19, 2022
Priority: 3 Day
Contact Name: Gina Pinget

Project Name: WENTWORTH HEALTH SERVICES REDEVELOPMENT
Project ID: 63097

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25 °C)	E.coli (MPN)	HOLD	pH (at 25 °C)	Thermotolerant Coliforms (MPN)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Total Dissolved Solids Dried at 180 °C ± 2 °C
Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
154	TP27-0.2-1.0	Aug 10, 2022		Soil	S22-Au0036128						X																
155	TP28-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036129						X																
156	TP29-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036130						X																
157	TP29-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036131						X																
158	TP30-0.2-0.4	Aug 10, 2022		Soil	S22-Au0036132						X																
159	TP30-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036133						X																
160	TP30-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036134						X																
161	TP31-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036135						X																
162	TP31-0.7-0.8	Aug 10, 2022		Soil	S22-Au0036136						X																
163	TP32-0-0.2	Aug 10, 2022		Soil	S22-Au0036137	X																					
164	TP32-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036138						X																
165	TP32-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036139						X																
166	TP32-1.0-1.1	Aug 10, 2022		Soil	S22-Au0036140						X																
167	TP33-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036141						X																

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
168	TP33-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036142						X																
169	TP33-1.0-1.1	Aug 10, 2022		Soil	S22-Au0036143						X																
170	TP34-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036144						X																
171	FRAG_TP34-0-0.2	Aug 10, 2022		Building Materials	S22-Au0036145						X																
172	TP35-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036146						X																
173	TP36-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036147						X																
174	TP36-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036148						X																
175	TP37-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036149						X																
176	TP37-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036150						X																
177	TP38-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036151						X																
178	TP38-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036152						X																
179	TP39-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036153						X																
180	TP39-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036154						X																

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
181	TP40-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036155						X																
182	TP40-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036156						X																
183	TP41-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036157						X																
184	TP42-0.1-0.2	Aug 10, 2022		Soil	S22-Au0036158						X																
185	TP42-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036159						X																
186	HA43-0.2-0.3	Aug 11, 2022		Soil	S22-Au0036160						X																
187	HA44-0.2-0.3	Aug 11, 2022		Soil	S22-Au0036161						X																
188	HA45-0.2-0.3	Aug 11, 2022		Soil	S22-Au0036162						X																
189	BH46-0.3-0.4	Aug 11, 2022		Soil	S22-Au0036163						X																
190	BH46-0.5-0.6	Aug 11, 2022		Soil	S22-Au0036164						X																
191	HA48-0.2-0.3	Aug 11, 2022		Soil	S22-Au0036165						X																
192	HA49-0.1-0.2	Aug 11, 2022		Soil	S22-Au0036166						X																
193	HA50-0.2-0.3	Aug 11, 2022		Soil	S22-Au0036167						X																
Test Counts						55	6	2	3	6	90	3	6	16	27	27	16	1	3	11	55	5	23	3	7	1	3

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**µg/L:** micrograms per litre
ppm: parts per million	**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

Terms

APHA	American Public Health Association
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 a moisture has been determined on a solid sample the result is expressed on a dry 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 is representative of 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 like compound to the analyte target and reported as percentage recovery.
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 5.4
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 be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

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

Results <10 times the LOR: No Limit

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

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

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

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

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

.

QC Data General Comments

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Conductivity (1:5 aqueous extract at 25 °C as rec.)	uS/cm	< 10			10	Pass	
Total Organic Carbon	%	< 0.1			0.1	Pass	
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	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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							
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	
Total PAH*	mg/kg	-			0.5	N/A	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Iron	mg/kg	< 20			20	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Benzene	mg/kg	< 0.1			0.1	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
Toluene	mg/kg	< 0.1			0.1	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	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	89			70-130	Pass	
4.4'-DDD	%	105			70-130	Pass	
4.4'-DDE	%	100			70-130	Pass	
4.4'-DDT	%	101			70-130	Pass	
a-HCH	%	101			70-130	Pass	
Aldrin	%	108			70-130	Pass	
b-HCH	%	100			70-130	Pass	
d-HCH	%	100			70-130	Pass	
Dieldrin	%	102			70-130	Pass	
Endosulfan I	%	110			70-130	Pass	
Endosulfan II	%	95			70-130	Pass	
Endosulfan sulphate	%	85			70-130	Pass	
Endrin	%	83			70-130	Pass	
Endrin aldehyde	%	72			70-130	Pass	
Endrin ketone	%	81			70-130	Pass	
g-HCH (Lindane)	%	97			70-130	Pass	
Heptachlor	%	90			70-130	Pass	
Heptachlor epoxide	%	86			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Hexachlorobenzene	%	91			70-130	Pass	
Methoxychlor	%	72			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	94			70-130	Pass	
Aroclor-1260	%	84			70-130	Pass	
LCS - % Recovery							
% Clay	%	97			70-130	Pass	
Conductivity (1:5 aqueous extract at 25 °C as rec.)	%	95			70-130	Pass	
Total Organic Carbon	%	118			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	92			70-130	Pass	
TRH C10-C14	%	122			70-130	Pass	
Naphthalene	%	104			70-130	Pass	
TRH C6-C10	%	92			70-130	Pass	
TRH >C10-C16	%	125			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	98			70-130	Pass	
Toluene	%	108			70-130	Pass	
Ethylbenzene	%	119			70-130	Pass	
m&p-Xylenes	%	108			70-130	Pass	
o-Xylene	%	106			70-130	Pass	
Xylenes - Total*	%	108			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	94			70-130	Pass	
Acenaphthylene	%	94			70-130	Pass	
Anthracene	%	100			70-130	Pass	
Benz(a)anthracene	%	93			70-130	Pass	
Benzo(a)pyrene	%	122			70-130	Pass	
Benzo(b&j)fluoranthene	%	105			70-130	Pass	
Benzo(g.h.i)perylene	%	111			70-130	Pass	
Benzo(k)fluoranthene	%	109			70-130	Pass	
Chrysene	%	111			70-130	Pass	
Dibenz(a.h)anthracene	%	110			70-130	Pass	
Fluoranthene	%	98			70-130	Pass	
Fluorene	%	98			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	107			70-130	Pass	
Naphthalene	%	90			70-130	Pass	
Phenanthrene	%	92			70-130	Pass	
Pyrene	%	96			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	102			80-120	Pass	
Cadmium	%	105			80-120	Pass	
Chromium	%	103			80-120	Pass	
Copper	%	104			80-120	Pass	
Iron	%	103			80-120	Pass	
Lead	%	97			80-120	Pass	
Mercury	%	100			80-120	Pass	
Nickel	%	100			80-120	Pass	
Zinc	%	103			80-120	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery									
Volatile Organics									
1.1-Dichloroethene			%	103			70-130	Pass	
1.1.1-Trichloroethane			%	102			70-130	Pass	
1.2-Dichlorobenzene			%	110			70-130	Pass	
1.2-Dichloroethane			%	106			70-130	Pass	
Benzene			%	106			70-130	Pass	
Ethylbenzene			%	103			70-130	Pass	
m&p-Xylenes			%	106			70-130	Pass	
o-Xylene			%	102			70-130	Pass	
Toluene			%	99			70-130	Pass	
Trichloroethene			%	96			70-130	Pass	
Xylenes - Total*			%	105			70-130	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	S22-Au0035986	CP	%	79			70-130	Pass	
TRH C10-C14	S22-Au0044062	NCP	%	104			70-130	Pass	
Naphthalene	S22-Au0035986	CP	%	71			70-130	Pass	
TRH C6-C10	S22-Au0039228	NCP	%	76			70-130	Pass	
TRH >C10-C16	S22-Au0044062	NCP	%	102			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S22-Au0035986	CP	%	94			70-130	Pass	
Toluene	S22-Au0035986	CP	%	88			70-130	Pass	
Ethylbenzene	S22-Au0035986	CP	%	101			70-130	Pass	
m&p-Xylenes	S22-Au0035986	CP	%	97			70-130	Pass	
o-Xylene	S22-Au0035986	CP	%	91			70-130	Pass	
Xylenes - Total*	S22-Au0035986	CP	%	95			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S22-Au0035986	CP	%	98			75-125	Pass	
Cadmium	S22-Au0035986	CP	%	101			75-125	Pass	
Chromium	S22-Au0035986	CP	%	92			75-125	Pass	
Lead	S22-Au0035986	CP	%	81			75-125	Pass	
Nickel	S22-Au0035986	CP	%	95			75-125	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
4.4'-DDD	S22-Au0035987	CP	%	111			70-130	Pass	
4.4'-DDE	S22-Au0035987	CP	%	107			70-130	Pass	
4.4'-DDT	S22-Au0035987	CP	%	130			70-130	Pass	
a-HCH	S22-Au0035987	CP	%	110			70-130	Pass	
Aldrin	S22-Au0035987	CP	%	111			70-130	Pass	
b-HCH	S22-Au0035987	CP	%	100			70-130	Pass	
d-HCH	S22-Au0035987	CP	%	101			70-130	Pass	
Dieldrin	S22-Au0035987	CP	%	111			70-130	Pass	
Endosulfan I	S22-Au0035987	CP	%	119			70-130	Pass	
Endosulfan II	S22-Au0035987	CP	%	102			70-130	Pass	
Endosulfan sulphate	S22-Au0035987	CP	%	119			70-130	Pass	
Endrin aldehyde	S22-Au0035987	CP	%	109			70-130	Pass	
g-HCH (Lindane)	S22-Au0035987	CP	%	97			70-130	Pass	
Hexachlorobenzene	S22-Au0035987	CP	%	117			70-130	Pass	
Methoxychlor	S22-Au0035987	CP	%	113			70-130	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S22-Au0035987	CP	%	88			70-130	Pass	
Aroclor-1260	S22-Au0035987	CP	%	101			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S22-Au0035987	CP	%	103			70-130	Pass	
Acenaphthylene	S22-Au0035987	CP	%	112			70-130	Pass	
Anthracene	S22-Au0035987	CP	%	115			70-130	Pass	
Benz(a)anthracene	S22-Au0035987	CP	%	100			70-130	Pass	
Benzo(a)pyrene	S22-Au0035987	CP	%	108			70-130	Pass	
Benzo(b&j)fluoranthene	S22-Au0035987	CP	%	101			70-130	Pass	
Benzo(g.h.i)perylene	S22-Au0035987	CP	%	82			70-130	Pass	
Benzo(k)fluoranthene	S22-Au0035987	CP	%	103			70-130	Pass	
Chrysene	S22-Au0035987	CP	%	102			70-130	Pass	
Dibenz(a.h)anthracene	S22-Au0035987	CP	%	98			70-130	Pass	
Fluoranthene	S22-Au0035987	CP	%	123			70-130	Pass	
Fluorene	S22-Au0035987	CP	%	116			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S22-Au0035987	CP	%	103			70-130	Pass	
Naphthalene	S22-Au0035987	CP	%	100			70-130	Pass	
Phenanthrene	S22-Au0035987	CP	%	114			70-130	Pass	
Pyrene	S22-Au0035987	CP	%	118			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
Naphthalene	S22-Au0035996	CP	%	85			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S22-Au0035996	CP	%	89			70-130	Pass	
Toluene	S22-Au0035996	CP	%	83			70-130	Pass	
Ethylbenzene	S22-Au0035996	CP	%	88			70-130	Pass	
m&p-Xylenes	S22-Au0035996	CP	%	90			70-130	Pass	
o-Xylene	S22-Au0035996	CP	%	90			70-130	Pass	
Xylenes - Total*	S22-Au0035996	CP	%	90			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	S22-Au0035996	CP	%	116			70-130	Pass	
1.1.1-Trichloroethane	S22-Au0035996	CP	%	77			70-130	Pass	
1.2-Dichlorobenzene	S22-Au0035996	CP	%	91			70-130	Pass	
1.2-Dichloroethane	S22-Au0035996	CP	%	91			70-130	Pass	
Trichloroethene	S22-Au0035996	CP	%	79			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S22-Au0036008	CP	%	83			75-125	Pass	
Cadmium	S22-Au0036008	CP	%	86			75-125	Pass	
Chromium	S22-Au0036008	CP	%	79			75-125	Pass	
Copper	S22-Au0036008	CP	%	81			75-125	Pass	
Lead	S22-Au0036008	CP	%	75			75-125	Pass	
Mercury	S22-Au0036008	CP	%	88			75-125	Pass	
Nickel	S22-Au0036008	CP	%	78			75-125	Pass	
Zinc	S22-Au0036008	CP	%	82			75-125	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S22-Au0036010	CP	%	100			70-130	Pass	
4.4'-DDD	S22-Au0036010	CP	%	94			70-130	Pass	
4.4'-DDE	S22-Au0036010	CP	%	94			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4.4'-DDT	S22-Au0036010	CP	%	89			70-130	Pass	
a-HCH	S22-Au0036010	CP	%	95			70-130	Pass	
Aldrin	S22-Au0036010	CP	%	90			70-130	Pass	
b-HCH	S22-Au0036010	CP	%	90			70-130	Pass	
d-HCH	S22-Au0036010	CP	%	97			70-130	Pass	
Dieldrin	S22-Au0036010	CP	%	92			70-130	Pass	
Endosulfan I	S22-Au0036010	CP	%	86			70-130	Pass	
Endosulfan II	S22-Au0036010	CP	%	96			70-130	Pass	
Endosulfan sulphate	S22-Au0036010	CP	%	93			70-130	Pass	
Endrin	S22-Au0036010	CP	%	93			70-130	Pass	
Endrin aldehyde	S22-Au0036010	CP	%	81			70-130	Pass	
Endrin ketone	S22-Au0036010	CP	%	99			70-130	Pass	
g-HCH (Lindane)	S22-Au0036010	CP	%	107			70-130	Pass	
Heptachlor	S22-Au0036010	CP	%	99			70-130	Pass	
Heptachlor epoxide	S22-Au0036010	CP	%	95			70-130	Pass	
Hexachlorobenzene	S22-Au0036010	CP	%	101			70-130	Pass	
Methoxychlor	S22-Au0036010	CP	%	76			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S22-Au0036010	CP	%	100			70-130	Pass	
Aroclor-1260	S22-Au0036010	CP	%	93			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S22-Au0036010	CP	%	104			70-130	Pass	
Acenaphthylene	S22-Au0036010	CP	%	104			70-130	Pass	
Anthracene	S22-Au0036010	CP	%	116			70-130	Pass	
Benz(a)anthracene	S22-Au0036010	CP	%	101			70-130	Pass	
Benzo(b&j)fluoranthene	S22-Au0036010	CP	%	111			70-130	Pass	
Benzo(g.h.i)perylene	S22-Au0036010	CP	%	98			70-130	Pass	
Benzo(k)fluoranthene	S22-Au0036010	CP	%	124			70-130	Pass	
Chrysene	S22-Au0036010	CP	%	119			70-130	Pass	
Dibenz(a.h)anthracene	S22-Au0036010	CP	%	109			70-130	Pass	
Fluoranthene	S22-Au0036010	CP	%	113			70-130	Pass	
Fluorene	S22-Au0036010	CP	%	111			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S22-Au0036010	CP	%	109			70-130	Pass	
Naphthalene	S22-Au0036010	CP	%	99			70-130	Pass	
Phenanthrene	S22-Au0036010	CP	%	102			70-130	Pass	
Pyrene	S22-Au0036010	CP	%	114			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S22-Au0036031	CP	%	126			70-130	Pass	
4.4'-DDD	S22-Au0036031	CP	%	95			70-130	Pass	
4.4'-DDE	S22-Au0036031	CP	%	99			70-130	Pass	
4.4'-DDT	S22-Au0036031	CP	%	80			70-130	Pass	
a-HCH	S22-Au0036031	CP	%	99			70-130	Pass	
Aldrin	S22-Au0036031	CP	%	109			70-130	Pass	
b-HCH	S22-Au0036031	CP	%	85			70-130	Pass	
d-HCH	S22-Au0036031	CP	%	98			70-130	Pass	
Dieldrin	S22-Au0036031	CP	%	105			70-130	Pass	
Endosulfan I	S22-Au0036031	CP	%	111			70-130	Pass	
Endosulfan II	S22-Au0036031	CP	%	83			70-130	Pass	
Endosulfan sulphate	S22-Au0036031	CP	%	73			70-130	Pass	
Endrin	S22-Au0036031	CP	%	85			70-130	Pass	
Endrin aldehyde	S22-Au0036031	CP	%	72			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin ketone	S22-Au0036031	CP	%	83			70-130	Pass	
g-HCH (Lindane)	S22-Au0036031	CP	%	102			70-130	Pass	
Heptachlor	S22-Au0036031	CP	%	128			70-130	Pass	
Heptachlor epoxide	S22-Au0036031	CP	%	127			70-130	Pass	
Hexachlorobenzene	S22-Au0036031	CP	%	113			70-130	Pass	
Methoxychlor	S22-Au0036031	CP	%	97			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S22-Au0036031	CP	%	85			70-130	Pass	
Aroclor-1260	S22-Au0036031	CP	%	99			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S22-Au0036031	CP	%	105			70-130	Pass	
Acenaphthylene	S22-Au0036031	CP	%	107			70-130	Pass	
Anthracene	S22-Au0036031	CP	%	116			70-130	Pass	
Benz(a)anthracene	S22-Au0036031	CP	%	96			70-130	Pass	
Benzo(a)pyrene	S22-Au0036031	CP	%	123			70-130	Pass	
Benzo(b&j)fluoranthene	S22-Au0036031	CP	%	93			70-130	Pass	
Benzo(g.h.i)perylene	S22-Au0036031	CP	%	122			70-130	Pass	
Benzo(k)fluoranthene	S22-Au0036031	CP	%	107			70-130	Pass	
Chrysene	S22-Au0036031	CP	%	125			70-130	Pass	
Dibenz(a.h)anthracene	S22-Au0036031	CP	%	118			70-130	Pass	
Fluoranthene	S22-Au0036031	CP	%	115			70-130	Pass	
Fluorene	S22-Au0036031	CP	%	111			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S22-Au0036031	CP	%	112			70-130	Pass	
Naphthalene	S22-Au0036031	CP	%	102			70-130	Pass	
Phenanthrene	S22-Au0036031	CP	%	109			70-130	Pass	
Pyrene	S22-Au0036031	CP	%	114			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S22-Au0036042	CP	%	104			70-130	Pass	
4.4'-DDD	S22-Au0036042	CP	%	101			70-130	Pass	
4.4'-DDE	S22-Au0036042	CP	%	113			70-130	Pass	
a-HCH	S22-Au0036042	CP	%	106			70-130	Pass	
Aldrin	S22-Au0036042	CP	%	102			70-130	Pass	
b-HCH	S22-Au0036042	CP	%	110			70-130	Pass	
d-HCH	S22-Au0036042	CP	%	86			70-130	Pass	
Dieldrin	S22-Au0036042	CP	%	93			70-130	Pass	
Endosulfan I	S22-Au0036042	CP	%	102			70-130	Pass	
Endosulfan II	S22-Au0036042	CP	%	101			70-130	Pass	
Endrin	S22-Au0036042	CP	%	128			70-130	Pass	
Endrin aldehyde	S22-Au0036042	CP	%	76			70-130	Pass	
Endrin ketone	S22-Au0036042	CP	%	80			70-130	Pass	
g-HCH (Lindane)	S22-Au0036042	CP	%	98			70-130	Pass	
Heptachlor	S22-Au0036042	CP	%	105			70-130	Pass	
Heptachlor epoxide	S22-Au0036042	CP	%	109			70-130	Pass	
Hexachlorobenzene	S22-Au0036042	CP	%	127			70-130	Pass	
Methoxychlor	S22-Au0036042	CP	%	82			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S22-Au0036042	CP	%	70			70-130	Pass	
Aroclor-1260	S22-Au0036042	CP	%	73			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Acenaphthene	S22-Au0036042	CP	%	109			70-130	Pass	
Acenaphthylene	S22-Au0036042	CP	%	106			70-130	Pass	
Anthracene	S22-Au0036042	CP	%	119			70-130	Pass	
Benz(a)anthracene	S22-Au0036042	CP	%	110			70-130	Pass	
Benzo(a)pyrene	S22-Au0036042	CP	%	113			70-130	Pass	
Benzo(b&j)fluoranthene	S22-Au0036042	CP	%	82			70-130	Pass	
Benzo(g.h.i)perylene	S22-Au0036042	CP	%	101			70-130	Pass	
Chrysene	S22-Au0036042	CP	%	115			70-130	Pass	
Dibenz(a.h)anthracene	S22-Au0036042	CP	%	111			70-130	Pass	
Fluorene	S22-Au0036042	CP	%	112			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S22-Au0036042	CP	%	93			70-130	Pass	
Naphthalene	S22-Au0036042	CP	%	117			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S22-Au0035985	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S22-Au0035985	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S22-Au0035985	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S22-Au0035985	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S22-Au0035985	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	S22-Au0035985	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	S22-Au0035985	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S22-Au0035985	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S22-Au0035985	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S22-Au0035985	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S22-Au0035985	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S22-Au0035985	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S22-Au0035985	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S22-Au0035985	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S22-Au0035985	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S22-Au0035985	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S22-Au0035985	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S22-Au0035985	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	S22-Au0035985	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S22-Au0035985	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	S22-Au0035985	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S22-Au0035985	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	S22-Au0035985	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	S22-Au0035985	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	S22-Au0035985	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	S22-Au0035985	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	S22-Au0035985	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S22-Au0035985	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S22-Au0035985	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S22-Au0035985	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S22-Au0035985	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S22-Au0035985	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S22-Au0035985	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S22-Au0035985	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S22-Au0035985	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Chrysene	S22-Au0035985	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S22-Au0035985	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S22-Au0035985	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S22-Au0035985	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S22-Au0035985	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S22-Au0035985	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S22-Au0035985	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S22-Au0035985	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S22-Au0040775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S22-Au0040775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S22-Au0040775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S22-Au0040775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S22-Au0040775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S22-Au0040775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S22-Au0040775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S22-Au0040775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S22-Au0040775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S22-Au0040775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S22-Au0040775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S22-Au0040775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S22-Au0040775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S22-Au0040775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S22-Au0040775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S22-Au0040775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Total Organic Carbon	M22-Au0042849	NCP	%	2.7	2.9	5.7	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S22-Au0036000	CP	%	8.4	7.9	6.0	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S22-Au0036007	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S22-Au0036007	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S22-Au0036007	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S22-Au0036007	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	S22-Au0036007	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S22-Au0036007	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	S22-Au0036007	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	S22-Au0036007	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S22-Au0036007	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S22-Au0036007	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S22-Au0036007	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S22-Au0036007	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S22-Au0036007	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S22-Au0036007	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S22-Au0036007	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	S22-Au0036007	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S22-Au0036007	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S22-Au0036007	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S22-Au0036007	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S22-Au0036007	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	S22-Au0036007	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S22-Au0036007	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	S22-Au0036007	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S22-Au0036007	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	S22-Au0036007	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	S22-Au0036007	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	S22-Au0036007	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	S22-Au0036007	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	S22-Au0036007	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S22-Au0036008	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S22-Au0036008	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S22-Au0036008	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S22-Au0036008	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	S22-Au0036008	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S22-Au0036008	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	S22-Au0036008	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	S22-Au0036008	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S22-Au0036008	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S22-Au0036008	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S22-Au0036008	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S22-Au0036008	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S22-Au0036008	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S22-Au0036008	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S22-Au0036008	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	S22-Au0036008	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S22-Au0036008	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S22-Au0036008	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S22-Au0036008	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S22-Au0036008	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	S22-Au0036008	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S22-Au0036008	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	S22-Au0036008	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S22-Au0036008	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	S22-Au0036008	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	S22-Au0036008	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	S22-Au0036008	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	S22-Au0036008	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	S22-Au0036008	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S22-Au0036012	CP	%	16	16	1.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S22-Au0036012	CP	mg/kg	3.3	3.6	8.0	30%	Pass	
Chromium	S22-Au0036012	CP	mg/kg	29	30	3.5	30%	Pass	
Copper	S22-Au0036012	CP	mg/kg	14	15	3.4	30%	Pass	
Lead	S22-Au0036012	CP	mg/kg	11	12	6.4	30%	Pass	
Mercury	S22-Au0036012	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S22-Au0036012	CP	mg/kg	16	17	2.6	30%	Pass	
Zinc	S22-Au0036012	CP	mg/kg	47	50	4.7	30%	Pass	

Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25 °C as rec.)	S22-Au0036023	CP	uS/cm	420	410	2.4	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S22-Au0036031	CP	%	7.2	7.1	1.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S22-Au0036037	CP	mg/kg	2.6	2.9	8.5	30%	Pass	
Cadmium	S22-Au0036037	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S22-Au0036037	CP	mg/kg	18	18	<1	30%	Pass	
Copper	S22-Au0036037	CP	mg/kg	8.5	8.7	2.7	30%	Pass	
Lead	S22-Au0036037	CP	mg/kg	15	16	6.9	30%	Pass	
Nickel	S22-Au0036037	CP	mg/kg	11	11	1.5	30%	Pass	
Zinc	S22-Au0036037	CP	mg/kg	37	45	19	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S22-Au0036052	CP	%	20	20	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S22-Au0036057	CP	mg/kg	3.3	3.6	8.6	30%	Pass	
Cadmium	S22-Au0036057	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S22-Au0036057	CP	mg/kg	36	37	1.5	30%	Pass	
Copper	S22-Au0036057	CP	mg/kg	19	19	<1	30%	Pass	
Iron	S22-Au0036057	CP	mg/kg	29000	29000	<1	30%	Pass	
Lead	S22-Au0036057	CP	mg/kg	20	20	4.7	30%	Pass	
Mercury	S22-Au0036057	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S22-Au0036057	CP	mg/kg	21	22	5.0	30%	Pass	
Zinc	S22-Au0036057	CP	mg/kg	69	67	2.5	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S22-Au0036060	CP	mg/kg	3.6	4.2	16	30%	Pass	
Cadmium	S22-Au0036060	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S22-Au0036060	CP	mg/kg	27	32	14	30%	Pass	
Copper	S22-Au0036060	CP	mg/kg	15	17	12	30%	Pass	
Iron	S22-Au0036060	CP	mg/kg	22000	26000	16	30%	Pass	
Lead	S22-Au0036060	CP	mg/kg	14	15	6.9	30%	Pass	
Mercury	S22-Au0036060	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S22-Au0036060	CP	mg/kg	18	23	27	30%	Pass	
Zinc	S22-Au0036060	CP	mg/kg	51	55	6.9	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S22-Au0036065	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Naphthalene	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S22-Au0036065	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S22-Au0036065	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S22-Au0036065	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S22-Au0036065	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S22-Au0036065	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S22-Au0036065	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S22-Au0036065	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	S22-Au0036065	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Cadmium	S22-Au0036066	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S22-Au0036066	CP	mg/kg	21	24	9.7	30%	Pass	
Copper	S22-Au0036066	CP	mg/kg	14	14	<1	30%	Pass	
Lead	S22-Au0036066	CP	mg/kg	27	28	5.2	30%	Pass	
Mercury	S22-Au0036066	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Nickel	S22-Au0036066	CP	mg/kg	14	15	10	30%	Pass	
Zinc	S22-Au0036066	CP	mg/kg	86	70	20	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S22-Au0036068	CP	%	10	11	4.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S22-Au0036072	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S22-Au0036072	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S22-Au0036072	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S22-Au0036072	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Naphthalene	S22-Au0036072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S22-Au0036072	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S22-Au0036072	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S22-Au0036072	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S22-Au0036072	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S22-Au0036072	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S22-Au0036072	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S22-Au0036072	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S22-Au0036072	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S22-Au0036072	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S22-Au0036072	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

Comments

All micro analysed by; Eurofins Food Testing; accreditation number 20293; report reference AR-22-NV-010827-01

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised by:

Quinn Raw	Analytical Services Manager
Maria Tian	Senior Analyst-Organic
Sayeed Abu	Senior Analyst-Asbestos
Dilani Samarakoon	Senior Analyst-Inorganic
Roopesh Rangarajan	Senior Analyst-Organic
Gabriele Cordero	Senior Analyst-Metal
Mary Makarios	Senior Analyst-Inorganic
Roopesh Rangarajan	Senior Analyst-Volatile
Mary Makarios	Senior Analyst-Metal
Jonathon Angell	Senior Analyst-Inorganic
Ryan Phillips	Senior Analyst-Inorganic

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please click here.

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eurofins | Environment Testing

Certificate of Analysis

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

NATA Accredited
Accreditation Number 1261
Site Number 18217

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

Attention: **Gina Pinget**

Report **914805-W**
Project name WENTWORTH HEALTH SERVICES REDEVELOPMENT
Project ID 63097
Received Date Aug 16, 2022

Client Sample ID			**TRIP BLANK**	**TRIP SPIKE**	**BLANK**	**RIN20220811-W**
Sample Matrix			**Water**	**Water**	**Water**	**Water**
Eurofins Sample No.			**S22-Au0035976**	**S22-Au0035977**	**S22-Au0035978**	**S22-Au0035979**
Date Sampled			**Aug 12, 2022**	**Aug 12, 2022**	**Aug 12, 2022**	**Aug 11, 2022**
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.001	mg/L	< 0.001	-	-	< 0.001
Toluene	0.001	mg/L	< 0.001	-	-	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	-	-	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	-	-	< 0.002
o-Xylene	0.001	mg/L	< 0.001	-	-	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	-	-	< 0.003
4-Bromofluorobenzene (surr.)	1	%	87	-	-	76
BTEX						
Benzene	1	%	-	110	-	-
Ethylbenzene	1	%	-	110	-	-
m&p-Xylenes	1	%	-	110	-	-
o-Xylene	1	%	-	120	-	-
Toluene	1	%	-	110	-	-
Xylenes - Total	1	%	-	110	-	-
4-Bromofluorobenzene (surr.)	1	%	-	89	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	-	-	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	-	-	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	-	-	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	-	-	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	-	-	< 0.01	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	-	-	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	-	-	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	-	-	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	-	-	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	-	-	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	-	-	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	-	-	79	106
13C5-PFPeA (surr.)	1	%	-	-	72	92
13C5-PFHxA (surr.)	1	%	-	-	70	85
13C4-PFHpA (surr.)	1	%	-	-	68	99
13C8-PFOA (surr.)	1	%	-	-	78	100
13C5-PFNA (surr.)	1	%	-	-	71	89
13C6-PFDA (surr.)	1	%	-	-	81	102

Client Sample ID			TRIP BLANK	TRIP SPIKE	BLANK	RIN20220811-W
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S22-Au0035976	S22-Au0035977	S22-Au0035978	S22-Au0035979
Date Sampled			Aug 12, 2022	Aug 12, 2022	Aug 12, 2022	Aug 11, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C2-PFUnDA (surr.)	1	%	-	-	90	116
13C2-PFDoDA (surr.)	1	%	-	-	100	124
13C2-PFTeDA (surr.)	1	%	-	-	53	67
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	-	-	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	-	-	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	-	-	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	-	-	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	-	-	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	-	-	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	-	-	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	-	-	56	78
D3-N-MeFOSA (surr.)	1	%	-	-	70	93
D5-N-EtFOSA (surr.)	1	%	-	-	66	87
D7-N-MeFOSE (surr.)	1	%	-	-	43	68
D9-N-EtFOSE (surr.)	1	%	-	-	40	55
D5-N-EtFOSAA (surr.)	1	%	-	-	63	85
D3-N-MeFOSAA (surr.)	1	%	-	-	65	84
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	-	-	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	-	-	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	-	-	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	-	-	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	-	-	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	-	-	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	-	-	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	-	-	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	-	-	68	119
18O2-PFHxS (surr.)	1	%	-	-	92	118
13C8-PFOS (surr.)	1	%	-	-	92	114
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	-	-	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	-	-	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	-	-	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	-	-	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	-	-	62	85
13C2-6:2 FTSA (surr.)	1	%	-	-	59	70
13C2-8:2 FTSA (surr.)	1	%	-	-	55	73
13C2-10:2 FTSA (surr.)	1	%	-	-	73	92

Client Sample ID			TRIP BLANK	TRIP SPIKE	BLANK	RIN20220811-W
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S22-Au0035976	S22-Au0035977	S22-Au0035978	S22-Au0035979
Date Sampled			Aug 12, 2022	Aug 12, 2022	Aug 12, 2022	Aug 11, 2022
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	-	-	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	-	-	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	-	-	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	-	-	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	-	-	< 0.1	< 0.1
Total Recoverable Hydrocarbons						
TRH C6-C9	0.02	mg/L	-	-	-	< 0.02
TRH C10-C14	0.05	mg/L	-	-	-	< 0.05
TRH C15-C28	0.1	mg/L	-	-	-	< 0.1
TRH C29-C36	0.1	mg/L	-	-	-	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	-	-	-	< 0.1
Naphthalene[N02]	0.01	mg/L	-	-	-	< 0.01
TRH C6-C10	0.02	mg/L	-	-	-	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	-	-	-	< 0.02
TRH >C10-C16	0.05	mg/L	-	-	-	< 0.05
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	-	-	-	< 0.05
TRH >C16-C34	0.1	mg/L	-	-	-	< 0.1
TRH >C34-C40	0.1	mg/L	-	-	-	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	-	-	-	< 0.1
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	-	-	-	< 0.001
1.1-Dichloroethene	0.001	mg/L	-	-	-	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	-	-	-	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	-	-	-	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	-	-	-	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	-	-	-	< 0.001
1.2-Dibromoethane	0.001	mg/L	-	-	-	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	-	-	-	< 0.001
1.2-Dichloroethane	0.001	mg/L	-	-	-	< 0.001
1.2-Dichloropropane	0.001	mg/L	-	-	-	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	-	-	-	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	-	-	-	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	-	-	-	< 0.001
1.3-Dichloropropane	0.001	mg/L	-	-	-	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	-	-	-	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	-	-	-	< 0.001
2-Butanone (MEK)	0.005	mg/L	-	-	-	< 0.005
2-Propanone (Acetone)	0.005	mg/L	-	-	-	< 0.005
4-Chlorotoluene	0.001	mg/L	-	-	-	< 0.001
4-Methyl-2-pentanone (MIBK)	0.005	mg/L	-	-	-	< 0.005
Allyl chloride	0.001	mg/L	-	-	-	< 0.001
Benzene	0.001	mg/L	-	-	-	< 0.001
Bromobenzene	0.001	mg/L	-	-	-	< 0.001
Bromochloromethane	0.001	mg/L	-	-	-	< 0.001
Bromodichloromethane	0.001	mg/L	-	-	-	< 0.001
Bromoform	0.001	mg/L	-	-	-	< 0.001
Bromomethane	0.005	mg/L	-	-	-	< 0.005
Carbon disulfide	0.001	mg/L	-	-	-	< 0.001

Client Sample ID			TRIP BLANK	TRIP SPIKE	BLANK	RIN20220811-W
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S22-Au0035976	S22-Au0035977	S22-Au0035978	S22-Au0035979
Date Sampled			Aug 12, 2022	Aug 12, 2022	Aug 12, 2022	Aug 11, 2022
Test/Reference	LOR	Unit				
Volatile Organics						
Carbon Tetrachloride	0.001	mg/L	-	-	-	< 0.001
Chlorobenzene	0.001	mg/L	-	-	-	< 0.001
Chloroethane	0.005	mg/L	-	-	-	< 0.005
Chloroform	0.005	mg/L	-	-	-	< 0.005
Chloromethane	0.005	mg/L	-	-	-	< 0.005
cis-1.2-Dichloroethene	0.001	mg/L	-	-	-	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	-	-	-	< 0.001
Dibromochloromethane	0.001	mg/L	-	-	-	< 0.001
Dibromomethane	0.001	mg/L	-	-	-	< 0.001
Dichlorodifluoromethane	0.005	mg/L	-	-	-	< 0.005
Ethylbenzene	0.001	mg/L	-	-	-	< 0.001
Iodomethane	0.001	mg/L	-	-	-	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	-	-	-	< 0.001
m&p-Xylenes	0.002	mg/L	-	-	-	< 0.002
Methylene Chloride	0.005	mg/L	-	-	-	< 0.005
o-Xylene	0.001	mg/L	-	-	-	< 0.001
Styrene	0.001	mg/L	-	-	-	< 0.001
Tetrachloroethene	0.001	mg/L	-	-	-	< 0.001
Toluene	0.001	mg/L	-	-	-	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	-	-	-	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	-	-	-	< 0.001
Trichloroethene	0.001	mg/L	-	-	-	< 0.001
Trichlorofluoromethane	0.005	mg/L	-	-	-	< 0.005
Vinyl chloride	0.005	mg/L	-	-	-	< 0.005
Xylenes - Total*	0.003	mg/L	-	-	-	< 0.003
Total MAH*	0.003	mg/L	-	-	-	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	-	-	-	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	-	-	-	< 0.005
4-Bromofluorobenzene (surr.)	1	%	-	-	-	76
Toluene-d8 (surr.)	1	%	-	-	-	71
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

Client Sample ID			TRIP BLANK	TRIP SPIKE	BLANK	RIN20220811-W
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S22-Au0035976	S22-Au0035977	S22-Au0035978	S22-Au0035979
Date Sampled			Aug 12, 2022	Aug 12, 2022	Aug 12, 2022	Aug 11, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
2-Fluorobiphenyl (surr.)	1	%	-	-	-	87
p-Terphenyl-d14 (surr.)	1	%	-	-	-	142
Organochlorine Pesticides						
Chlordanes - Total	0.002	mg/L	-	-	-	< 0.002
4.4'-DDD	0.0002	mg/L	-	-	-	< 0.0002
4.4'-DDE	0.0002	mg/L	-	-	-	< 0.0002
4.4'-DDT	0.0002	mg/L	-	-	-	< 0.0002
a-HCH	0.0002	mg/L	-	-	-	< 0.0002
Aldrin	0.0002	mg/L	-	-	-	< 0.0002
b-HCH	0.0002	mg/L	-	-	-	< 0.0002
d-HCH	0.0002	mg/L	-	-	-	< 0.0002
Dieldrin	0.0002	mg/L	-	-	-	< 0.0002
Endosulfan I	0.0002	mg/L	-	-	-	< 0.0002
Endosulfan II	0.0002	mg/L	-	-	-	< 0.0002
Endosulfan sulphate	0.0002	mg/L	-	-	-	< 0.0002
Endrin	0.0002	mg/L	-	-	-	< 0.0002
Endrin aldehyde	0.0002	mg/L	-	-	-	< 0.0002
Endrin ketone	0.0002	mg/L	-	-	-	< 0.0002
g-HCH (Lindane)	0.0002	mg/L	-	-	-	< 0.0002
Heptachlor	0.0002	mg/L	-	-	-	< 0.0002
Heptachlor epoxide	0.0002	mg/L	-	-	-	< 0.0002
Hexachlorobenzene	0.0002	mg/L	-	-	-	< 0.0002
Methoxychlor	0.0002	mg/L	-	-	-	< 0.0002
Toxaphene	0.005	mg/L	-	-	-	< 0.005
Aldrin and Dieldrin (Total)*	0.0002	mg/L	-	-	-	< 0.0002
DDT + DDE + DDD (Total)*	0.0002	mg/L	-	-	-	< 0.0002
Vic EPA IWRG 621 OCP (Total)*	0.002	mg/L	-	-	-	< 0.002
Vic EPA IWRG 621 Other OCP (Total)*	0.002	mg/L	-	-	-	< 0.002
Dibutylchlorendate (surr.)	1	%	-	-	-	[Q09]INT
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	135
Polychlorinated Biphenyls						
Aroclor-1016	0.005	mg/L	-	-	-	< 0.005
Aroclor-1221	0.005	mg/L	-	-	-	< 0.005
Aroclor-1232	0.005	mg/L	-	-	-	< 0.005
Aroclor-1242	0.005	mg/L	-	-	-	< 0.005
Aroclor-1248	0.005	mg/L	-	-	-	< 0.005
Aroclor-1254	0.005	mg/L	-	-	-	< 0.005
Aroclor-1260	0.005	mg/L	-	-	-	< 0.005
Total PCB*	0.005	mg/L	-	-	-	< 0.005
Dibutylchlorendate (surr.)	1	%	-	-	-	[Q09]INT
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	135
Heavy Metals						
Arsenic	0.001	mg/L	-	-	-	< 0.001
Cadmium	0.0002	mg/L	-	-	-	< 0.0002
Chromium	0.001	mg/L	-	-	-	< 0.001
Copper	0.001	mg/L	-	-	-	< 0.001
Lead	0.001	mg/L	-	-	-	< 0.001
Mercury	0.0001	mg/L	-	-	-	< 0.0001

Client Sample ID			TRIP BLANK	TRIP SPIKE	BLANK	RIN20220811-W
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S22-Au0035976	S22-Au0035977	S22-Au0035978	S22-Au0035979
Date Sampled			Aug 12, 2022	Aug 12, 2022	Aug 12, 2022	Aug 11, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Nickel	0.001	mg/L	-	-	-	< 0.001
Zinc	0.005	mg/L	-	-	-	< 0.005

Client Sample ID			QC-MW	MW03	MW04	HP01
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S22-Au0035980	S22-Au0035981	S22-Au0035982	S22-Au0035988
Date Sampled			Aug 11, 2022	Aug 11, 2022	Aug 11, 2022	Aug 11, 2022
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	-
4-Bromofluorobenzene (surr.)	1	%	82	77	74	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	80	80	59	94
13C5-PFPeA (surr.)	1	%	74	67	51	76
13C5-PFHxA (surr.)	1	%	69	72	57	71
13C4-PFHpA (surr.)	1	%	85	87	75	87
13C8-PFOA (surr.)	1	%	99	89	96	92
13C5-PFNA (surr.)	1	%	100	96	101	95
13C6-PFDA (surr.)	1	%	101	95	96	94
13C2-PFUnDA (surr.)	1	%	112	105	107	105
13C2-PFDoDA (surr.)	1	%	115	102	108	108
13C2-PFTeDA (surr.)	1	%	75	60	61	76
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			QC-MW	MW03	MW04	HP01
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S22-Au0035980	S22-Au0035981	S22-Au0035982	S22-Au0035988
Date Sampled			Aug 11, 2022	Aug 11, 2022	Aug 11, 2022	Aug 11, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	106	89	90	116
D3-N-MeFOSA (surr.)	1	%	118	103	118	158
D5-N-EtFOSA (surr.)	1	%	106	92	107	158
D7-N-MeFOSE (surr.)	1	%	77	65	74	67
D9-N-EtFOSE (surr.)	1	%	69	56	69	52
D5-N-EtFOSAA (surr.)	1	%	87	87	88	80
D3-N-MeFOSAA (surr.)	1	%	89	86	87	84
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	113	119	108	113
18O2-PFHxS (surr.)	1	%	118	118	112	117
13C8-PFOS (surr.)	1	%	121	115	123	118
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	60	57	50	71
13C2-6:2 FTSA (surr.)	1	%	87	80	74	88
13C2-8:2 FTSA (surr.)	1	%	83	82	83	83
13C2-10:2 FTSA (surr.)	1	%	96	88	89	81
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1
Total Recoverable Hydrocarbons						
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	< 0.02	-
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	< 0.05	-
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1	< 0.1	-
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	-
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	< 0.1	< 0.1	-
Naphthalene[N02]	0.01	mg/L	< 0.01	< 0.01	< 0.01	-
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	< 0.02	-

Client Sample ID			QC-MW	MW03	MW04	HP01
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S22-Au0035980	S22-Au0035981	S22-Au0035982	S22-Au0035988
Date Sampled			Aug 11, 2022	Aug 11, 2022	Aug 11, 2022	Aug 11, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	< 0.02	< 0.02	-
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	0.05	-
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	< 0.05	0.05	-
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1	< 0.1	-
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	-
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	< 0.1	< 0.1	-
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
2-Butanone (MEK)	0.005	mg/L	< 0.005	< 0.005	< 0.005	-
2-Propanone (Acetone)	0.005	mg/L	< 0.005	< 0.005	< 0.005	-
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
4-Methyl-2-pentanone (MIBK)	0.005	mg/L	< 0.005	< 0.005	< 0.005	-
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Bromoform	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Bromomethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	-
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Chloroethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	-
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.005	-
Chloromethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	-
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Dichlorodifluoromethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	-
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Iodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	-

Client Sample ID			QC-MW	MW03	MW04	HP01
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S22-Au0035980	S22-Au0035981	S22-Au0035982	S22-Au0035988
Date Sampled			Aug 11, 2022	Aug 11, 2022	Aug 11, 2022	Aug 11, 2022
Test/Reference	LOR	Unit				
Volatile Organics						
Methylene Chloride	0.005	mg/L	< 0.005	< 0.005	< 0.005	-
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Styrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Trichlorofluoromethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	-
Vinyl chloride	0.005	mg/L	< 0.005	< 0.005	< 0.005	-
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	-
Total MAH*	0.003	mg/L	< 0.003	< 0.003	< 0.003	-
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	-
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	-
4-Bromofluorobenzene (surr.)	1	%	82	77	74	-
Toluene-d8 (surr.)	1	%	83	69	73	-
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Fluorene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Naphthalene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Phenanthrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Total PAH*	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
2-Fluorobiphenyl (surr.)	1	%	INT	57	52	-
p-Terphenyl-d14 (surr.)	1	%	128	120	109	-
Heavy Metals						
Arsenic (filtered)	0.001	mg/L	0.023	0.024	0.023	-
Cadmium (filtered)	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	-
Chromium (filtered)	0.001	mg/L	< 0.001	0.001	0.002	-
Copper (filtered)	0.001	mg/L	0.004	0.015	0.007	-
Lead (filtered)	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Mercury (filtered)	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	-
Nickel (filtered)	0.001	mg/L	0.001	0.002	0.007	-
Zinc (filtered)	0.005	mg/L	0.018	0.008	0.011	-
Conductivity (at 25 °C)	10	uS/cm	2600	2400	3300	-
pH (at 25 °C)	0.1	pH Units	8.0	8.4	8.3	-
Total Dissolved Solids Dried at 180 °C ± 2 °C	10	mg/L	3400	3400	4600	-
Hardness mg equivalent CaCO3/L	1	mg/L	120	110	95	-

Client Sample ID			QC-MW	MW03	MW04	HP01
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S22-Au0035980	S22-Au0035981	S22-Au0035982	S22-Au0035988
Date Sampled			Aug 11, 2022	Aug 11, 2022	Aug 11, 2022	Aug 11, 2022
Test/Reference	LOR	Unit				
Alkali Metals						
Calcium	0.5	mg/L	15	14	14	-
Magnesium	0.5	mg/L	20	19	15	-

Client Sample ID			HP02	RIN20220811-S
Sample Matrix			Water	Water
Eurofins Sample No.			S22-Au0035989	S22-Au0035995
Date Sampled			Aug 11, 2022	Aug 11, 2022
Test/Reference	LOR	Unit		
BTEX				
Benzene	0.001	mg/L	-	< 0.001
Toluene	0.001	mg/L	-	< 0.001
Ethylbenzene	0.001	mg/L	-	< 0.001
m&p-Xylenes	0.002	mg/L	-	< 0.002
o-Xylene	0.001	mg/L	-	< 0.001
Xylenes - Total*	0.003	mg/L	-	< 0.003
4-Bromofluorobenzene (surr.)	1	%	-	81
Perfluoroalkyl carboxylic acids (PFCAs)				
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	-
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	-
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	-
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	-
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	-
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	-
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	-
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	-
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	-
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	-
13C4-PFBA (surr.)	1	%	85	-
13C5-PFPeA (surr.)	1	%	72	-
13C5-PFHxA (surr.)	1	%	68	-
13C4-PFHpA (surr.)	1	%	85	-
13C8-PFOA (surr.)	1	%	82	-
13C5-PFNA (surr.)	1	%	93	-
13C6-PFDA (surr.)	1	%	83	-
13C2-PFUnDA (surr.)	1	%	93	-
13C2-PFDoDA (surr.)	1	%	90	-
13C2-PFTeDA (surr.)	1	%	49	-
Perfluoroalkyl sulfonamido substances				
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	< 0.05	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	< 0.05	-

Client Sample ID			HP02	RIN20220811-S
Sample Matrix			Water	Water
Eurofins Sample No.			S22-Au0035989	S22-Au0035995
Date Sampled			Aug 11, 2022	Aug 11, 2022
Test/Reference	LOR	Unit		
Perfluoroalkyl sulfonamido substances				
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	-
13C8-FOSA (surr.)	1	%	93	-
D3-N-MeFOSA (surr.)	1	%	93	-
D5-N-EtFOSA (surr.)	1	%	71	-
D7-N-MeFOSE (surr.)	1	%	51	-
D9-N-EtFOSE (surr.)	1	%	46	-
D5-N-EtFOSAA (surr.)	1	%	68	-
D3-N-MeFOSAA (surr.)	1	%	76	-
Perfluoroalkyl sulfonic acids (PFSAs)				
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	-
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	-
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01	-
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	-
13C3-PFBS (surr.)	1	%	107	-
18O2-PFHxS (surr.)	1	%	103	-
13C8-PFOS (surr.)	1	%	113	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	< 0.05	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	-
13C2-4:2 FTSA (surr.)	1	%	73	-
13C2-6:2 FTSA (surr.)	1	%	88	-
13C2-8:2 FTSA (surr.)	1	%	78	-
13C2-10:2 FTSA (surr.)	1	%	66	-
PFASs Summations				
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	-
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	-
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	-
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	-
Total Recoverable Hydrocarbons				
TRH C6-C9	0.02	mg/L	-	< 0.02
TRH C10-C14	0.05	mg/L	-	< 0.05
TRH C15-C28	0.1	mg/L	-	< 0.1
TRH C29-C36	0.1	mg/L	-	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	-	< 0.1
Naphthalene[N02]	0.01	mg/L	-	< 0.01
TRH C6-C10	0.02	mg/L	-	< 0.02

Client Sample ID			HP02	RIN20220811-S
Sample Matrix			Water	Water
Eurofins Sample No.			S22-Au0035989	S22-Au0035995
Date Sampled			Aug 11, 2022	Aug 11, 2022
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons				
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	-	< 0.02
TRH >C10-C16	0.05	mg/L	-	< 0.05
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	-	< 0.05
TRH >C16-C34	0.1	mg/L	-	< 0.1
TRH >C34-C40	0.1	mg/L	-	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	-	< 0.1
Volatile Organics				
1.1-Dichloroethane	0.001	mg/L	-	< 0.001
1.1-Dichloroethene	0.001	mg/L	-	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	-	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	-	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	-	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	-	< 0.001
1.2-Dibromoethane	0.001	mg/L	-	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	-	< 0.001
1.2-Dichloroethane	0.001	mg/L	-	< 0.001
1.2-Dichloropropane	0.001	mg/L	-	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	-	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	-	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	-	< 0.001
1.3-Dichloropropane	0.001	mg/L	-	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	-	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	-	< 0.001
2-Butanone (MEK)	0.005	mg/L	-	< 0.005
2-Propanone (Acetone)	0.005	mg/L	-	< 0.005
4-Chlorotoluene	0.001	mg/L	-	< 0.001
4-Methyl-2-pentanone (MIBK)	0.005	mg/L	-	< 0.005
Allyl chloride	0.001	mg/L	-	< 0.001
Benzene	0.001	mg/L	-	< 0.001
Bromobenzene	0.001	mg/L	-	< 0.001
Bromochloromethane	0.001	mg/L	-	< 0.001
Bromodichloromethane	0.001	mg/L	-	< 0.001
Bromoform	0.001	mg/L	-	< 0.001
Bromomethane	0.005	mg/L	-	< 0.005
Carbon disulfide	0.001	mg/L	-	< 0.001
Carbon Tetrachloride	0.001	mg/L	-	< 0.001
Chlorobenzene	0.001	mg/L	-	< 0.001
Chloroethane	0.005	mg/L	-	< 0.005
Chloroform	0.005	mg/L	-	< 0.005
Chloromethane	0.005	mg/L	-	< 0.005
cis-1.2-Dichloroethene	0.001	mg/L	-	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	-	< 0.001
Dibromochloromethane	0.001	mg/L	-	< 0.001
Dibromomethane	0.001	mg/L	-	< 0.001
Dichlorodifluoromethane	0.005	mg/L	-	< 0.005
Ethylbenzene	0.001	mg/L	-	< 0.001
Iodomethane	0.001	mg/L	-	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	-	< 0.001
m&p-Xylenes	0.002	mg/L	-	< 0.002

Client Sample ID			HP02	RIN20220811-S
Sample Matrix			Water	Water
Eurofins Sample No.			S22-Au0035989	S22-Au0035995
Date Sampled			Aug 11, 2022	Aug 11, 2022
Test/Reference	LOR	Unit		
Volatile Organics				
Methylene Chloride	0.005	mg/L	-	< 0.005
o-Xylene	0.001	mg/L	-	< 0.001
Styrene	0.001	mg/L	-	< 0.001
Tetrachloroethene	0.001	mg/L	-	< 0.001
Toluene	0.001	mg/L	-	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	-	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	-	< 0.001
Trichloroethene	0.001	mg/L	-	< 0.001
Trichlorofluoromethane	0.005	mg/L	-	< 0.005
Vinyl chloride	0.005	mg/L	-	< 0.005
Xylenes - Total*	0.003	mg/L	-	< 0.003
Total MAH*	0.003	mg/L	-	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	-	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	-	< 0.005
4-Bromofluorobenzene (surr.)	1	%	-	81
Toluene-d8 (surr.)	1	%	-	71
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	%	-	[Q09]INT
p-Terphenyl-d14 (surr.)	1	%	-	108
Heavy Metals				
Arsenic	0.001	mg/L	-	< 0.001
Cadmium	0.0002	mg/L	-	< 0.0002
Chromium	0.001	mg/L	-	< 0.001
Copper	0.001	mg/L	-	< 0.001
Lead	0.001	mg/L	-	< 0.001
Mercury	0.0001	mg/L	-	< 0.0001
Nickel	0.001	mg/L	-	< 0.001
Zinc	0.005	mg/L	-	< 0.005

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
BTEX	Sydney	Aug 17, 2022	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Aug 17, 2022	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Aug 17, 2022	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Aug 17, 2022	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Aug 17, 2022	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8 filtered	Sydney	Aug 17, 2022	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Volatile Organics	Sydney	Aug 17, 2022	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
Organochlorine Pesticides	Sydney	Aug 17, 2022	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Aug 17, 2022	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Conductivity (at 25 °C)	Sydney	Aug 17, 2022	28 Days
- Method: LTM-INO-4030 Conductivity			
pH (at 25 °C)	Sydney	Aug 17, 2022	0 Hour
- Method: LTM-GEN-7090 pH in water by ISE			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Brisbane	Aug 18, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Brisbane	Aug 18, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Brisbane	Aug 18, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Brisbane	Aug 18, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Metals M8	Sydney	Aug 17, 2022	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Total Dissolved Solids Dried at 180 °C ± 2 °C	Sydney	Aug 17, 2022	7 Days
- Method: LTM-INO-4170 Total Dissolved Solids in Water			
Hardness Set			
Hardness mg equivalent CaCO3/L	Sydney	Aug 17, 2022	28 Days
- Method: E020.1 Hardness in water			
Alkali Metals	Sydney	Aug 17, 2022	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			

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

Order No.:
Report #: 914805
Phone: 02 8245 0300
Fax:

Received: Aug 16, 2022 1:47 PM
Due: Aug 19, 2022
Priority: 3 Day
Contact Name: Gina Pinget

Project Name: WENTWORTH HEALTH SERVICES REDEVELOPMENT
Project ID: 63097

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25 °C)	E.coli (MPN)	HOLD	pH (at 25 °C)	Thermotolerant Coliforms (MPN)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Total Dissolved Solids Dried at 180 °C ± 2 °C
Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
External Laboratory										X			X														
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																						
1	RIN20220811	Aug 11, 2022		Water	S22-Au0034365			X																			
2	TRIP BLANK	Aug 12, 2022		Water	S22-Au0035976													X									
3	TRIP SPIKE	Aug 12, 2022		Water	S22-Au0035977																					X	
4	BLANK	Aug 12, 2022		Water	S22-Au0035978																				X		
5	RIN20220811-W	Aug 11, 2022		Water	S22-Au0035979										X	X				X			X		X		
6	QC-MW	Aug 11, 2022		Water	S22-Au0035980				X			X							X	X				X	X		X
7	MW03	Aug 11, 2022		Water	S22-Au0035981				X			X							X	X				X	X		X
8	MW04	Aug 11, 2022		Water	S22-Au0035982				X			X							X	X				X	X		X
9	FRAG-02	Aug 10, 2022		Building Materials	S22-Au0035983		X																				
10	FRAG-04	Aug 11, 2022		Building	S22-Au0035984		X																				

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Company Name: JBS & G Australia (NSW) P/L
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Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25 °C)	E.coli (MPN)	HOLD	pH (at 25 °C)	Thermotolerant Coliforms (MPN)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Total Dissolved Solids Dried at 180 °C ± 2 °C
Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
				Materials																							
11	QC20220809-01	Aug 09, 2022		Soil	S22-Au0035985	X									X	X					X						
12	QC20220810-01	Aug 10, 2022		Soil	S22-Au0035986	X				X			X								X		X				
13	QC20220811-01	Aug 11, 2022		Soil	S22-Au0035987	X								X	X	X	X			X	X						
14	HP01	Aug 11, 2022		Water	S22-Au0035988																				X		
15	HP02	Aug 11, 2022		Water	S22-Au0035989																				X		
16	TP01-0-0.1	Aug 09, 2022		Soil	S22-Au0035990										X	X					X		X				
17	TP01-0-0.3	Aug 09, 2022		Soil	S22-Au0035991	X																					
18	TP01-0.5-0.6	Aug 09, 2022		Soil	S22-Au0035992																X	X					
19	TP02-0-0.1	Aug 09, 2022		Soil	S22-Au0035993										X	X					X						
20	TP02-0-0.4	Aug 09, 2022		Soil	S22-Au0035994	X																					
21	RIN20220811-	Aug 11, 2022		Water	S22-Au0035995															X			X				

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Order No.:
Report #: 914805
Phone: 02 8245 0300
Fax:

Received: Aug 16, 2022 1:47 PM
Due: Aug 19, 2022
Priority: 3 Day
Contact Name: Gina Pinget

Project Name: WENTWORTH HEALTH SERVICES REDEVELOPMENT
Project ID: 63097

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25 °C)	E.coli (MPN)	HOLD	pH (at 25 °C)	Thermotolerant Coliforms (MPN)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Total Dissolved Solids Dried at 180 °C ± 2 °C
Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
21	RIN20220811-S	Aug 11, 2022		Water	S22-Au0035995																						
22	SS01-0-0.1	Aug 09, 2022		Soil	S22-Au0035996															X	X		X				
23	TP03-0-0.1	Aug 09, 2022		Soil	S22-Au0035997										X	X					X		X				
24	TP03-0-1.0	Aug 09, 2022		Soil	S22-Au0035998	X																					
25	TP04-0-0.4	Aug 09, 2022		Soil	S22-Au0035999	X																					
26	TP04-0-0.1	Aug 09, 2022		Soil	S22-Au0036000										X	X				X	X						
27	TP05-0-0.1	Aug 09, 2022		Soil	S22-Au0036001	X									X	X					X		X				
28	TP06-0-0.1	Aug 09, 2022		Soil	S22-Au0036002	X									X	X					X						
29	TP07-0-0.1	Aug 09, 2022		Soil	S22-Au0036003	X									X	X					X		X				
30	TP07-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036004																X	X					
31	TP08-0-0.1	Aug 09, 2022		Soil	S22-Au0036005	X									X	X					X						
32	TP09-0-0.2	Aug 09, 2022		Soil	S22-Au0036006	X																					
33	TP09-0-0.1	Aug 09, 2022		Soil	S22-Au0036007										X	X					X						

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Project ID: 63097

Eurofins Analytical Services Manager : Andrew Black

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
34	TP10-0-0.1	Aug 09, 2022		Soil	S22-Au0036008	X								X	X	X	X				X						
35	TP11-0-0.2	Aug 09, 2022		Soil	S22-Au0036009	X																					
36	TP11-0-0.1	Aug 09, 2022		Soil	S22-Au0036010										X	X					X		X				
37	TP12-0-0.1	Aug 09, 2022		Soil	S22-Au0036011	X									X	X					X						
38	TP13-0-0.1	Aug 09, 2022		Soil	S22-Au0036012	X															X		X				
39	TP14-0-0.1	Aug 09, 2022		Soil	S22-Au0036013					X			X	X			X				X						
40	TP15-0-0.2	Aug 09, 2022		Soil	S22-Au0036014	X																					
41	TP15-0-0.1	Aug 09, 2022		Soil	S22-Au0036015										X	X					X						
42	TP16-0-0.5	Aug 09, 2022		Soil	S22-Au0036016			X																			
43	TP16-0-0.1	Aug 09, 2022		Soil	S22-Au0036017																X		X				
44	TP17-0-0.3	Aug 10, 2022		Soil	S22-Au0036018	X																					
45	TP17-0-0.1	Aug 10, 2022		Soil	S22-Au0036019									X			X				X						
46	TP18-0-0.1	Aug 10, 2022		Soil	S22-Au0036020					X			X								X		X				
47	TP18-0-0.2	Aug 10, 2022		Soil	S22-Au0036021	X																					

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Eurofins Analytical Services Manager : Andrew Black

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
48	TP19-0-0.1	Aug 10, 2022		Soil	S22-Au0036022	X																					
49	TP19-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036023																X	X					
50	TP20-0-0.1	Aug 10, 2022		Soil	S22-Au0036024	X															X		X				
51	TP21-0-0.1	Aug 10, 2022		Soil	S22-Au0036025	X																					
52	TP22-0-0.1	Aug 10, 2022		Soil	S22-Au0036026	X																					
53	TP23-0-0.1	Aug 10, 2022		Soil	S22-Au0036027	X				X			X								X		X				
54	TP24-0-0.1	Aug 10, 2022		Soil	S22-Au0036028	X				X			X								X		X				
55	TP25-0-0.2	Aug 10, 2022		Soil	S22-Au0036029	X																					
56	TP25-0-0.1	Aug 10, 2022		Soil	S22-Au0036030									X	X	X	X				X						
57	TP25-0.2-0.25	Aug 10, 2022		Soil	S22-Au0036031																X		X				
58	TP26-0-0.1	Aug 10, 2022		Soil	S22-Au0036032	X									X	X					X						
59	TP26-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036033																X	X					
60	TP27-0-0.1	Aug 10, 2022		Soil	S22-Au0036034										X	X					X						
61	TP27-0-0.2	Aug 10, 2022		Soil	S22-Au0036035	X																					

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
62	TP28-0-0.4	Aug 10, 2022		Soil	S22-Au0036036	X																					
63	TP28-0-0.1	Aug 10, 2022		Soil	S22-Au0036037										X	X					X		X				
64	TP29-0-0.1	Aug 10, 2022		Soil	S22-Au0036038										X	X					X						
65	TP29-0-0.2	Aug 10, 2022		Soil	S22-Au0036039	X																					
66	TP30-0-0.2	Aug 10, 2022		Soil	S22-Au0036040	X																					
67	TP30-0-0.1	Aug 10, 2022		Soil	S22-Au0036041									X	X	X	X				X						
68	TP31-0-0.1	Aug 10, 2022		Soil	S22-Au0036042	X									X	X				X	X						
69	FRAG_TP32-0.5-0.7	Aug 10, 2022		Building Materials	S22-Au0036043		X																				
70	TP32-0-0.1	Aug 10, 2022		Soil	S22-Au0036044										X	X					X		X				
71	TP32-0.2-0.5	Aug 10, 2022		Soil	S22-Au0036045	X																					
72	TP32-0.5-0.7	Aug 10, 2022		Soil	S22-Au0036046	X																					
73	TP33-0-0.4	Aug 10, 2022		Soil	S22-Au0036047	X																					
74	TP33-0-0.1	Aug 10, 2022		Soil	S22-Au0036048										X	X					X						

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
75	TP33-0.4-0.7	Aug 10, 2022		Soil	S22-Au0036049	X																					
76	FRAG_TP03-0-0.4	Aug 09, 2022		Building Materials	S22-Au0036050		X																				
77	FRAG_TP33-0-0.1	Aug 10, 2022		Building Materials	S22-Au0036051		X																				
78	TP34-0-0.1	Aug 10, 2022		Soil	S22-Au0036052					X			X								X		X				
79	TP34-0-0.4	Aug 10, 2022		Soil	S22-Au0036053	X																					
80	TP35-0-0.1	Aug 10, 2022		Soil	S22-Au0036054									X			X				X						
81	TP35-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036055																X	X					
82	TP36-0-0.1	Aug 10, 2022		Soil	S22-Au0036056	X																					
83	TP37-0-0.1	Aug 10, 2022		Soil	S22-Au0036057	X															X		X				
84	TP38-0-0.1	Aug 10, 2022		Soil	S22-Au0036058	X																					
85	TP39-0-0.3	Aug 10, 2022		Soil	S22-Au0036059	X																					
86	TP39-0-0.1	Aug 10, 2022		Soil	S22-Au0036060									X			X				X						

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
87	TP40-0-0.2	Aug 10, 2022		Soil	S22-Au0036061	X																					
88	TP40-0-0.1	Aug 10, 2022		Soil	S22-Au0036062																X		X				
89	TP41-0-0.1	Aug 10, 2022		Soil	S22-Au0036063	X								X			X				X						
90	FRAG_TP41-0-0.1	Aug 10, 2022		Building Materials	S22-Au0036064		X																				
91	TP42-0-0.1	Aug 10, 2022		Soil	S22-Au0036065	X														X	X		X				
92	HA43-0-0.1	Aug 11, 2022		Soil	S22-Au0036066	X								X			X				X						
93	HA44-0-0.1	Aug 11, 2022		Soil	S22-Au0036067	X								X			X				X						
94	HA45-0-0.1	Aug 11, 2022		Soil	S22-Au0036068	X								X			X				X						
95	BH46-0-0.1	Aug 11, 2022		Soil	S22-Au0036069	X								X			X				X						
96	HA47-0-0.2	Aug 11, 2022		Soil	S22-Au0036070	X																					
97	HA47-0-0.1	Aug 11, 2022		Soil	S22-Au0036071									X			X				X						
98	HA48-0-0.1	Aug 11, 2022		Soil	S22-Au0036072	X															X		X				
99	HA49-0-0.1	Aug 11, 2022		Soil	S22-Au0036073	X								X	X	X	X				X						

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Company Name: JBS & G Australia (NSW) P/L
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Order No.:
Report #: 914805
Phone: 02 8245 0300
Fax:

Received: Aug 16, 2022 1:47 PM
Due: Aug 19, 2022
Priority: 3 Day
Contact Name: Gina Pinget

Project Name: WENTWORTH HEALTH SERVICES REDEVELOPMENT
Project ID: 63097

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25 °C)	E.coli (MPN)	HOLD	pH (at 25 °C)	Thermotolerant Coliforms (MPN)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Total Dissolved Solids Dried at 180 °C ± 2 °C
Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
100	HA50-0-0.1	Aug 11, 2022		Soil	S22-Au0036074	X								X	X	X	X			X	X						
101	FRAG-01	Aug 10, 2022		Building Materials	S22-Au0036075						X																
102	FRAG-03	Aug 10, 2022		Building Materials	S22-Au0036076						X																
103	TP01-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036077						X																
104	TP02-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036078						X																
105	TP02-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036079						X																
106	TP02-1.0-1.1	Aug 09, 2022		Soil	S22-Au0036080						X																
107	TP03-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036081						X																
108	TP03-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036082						X																
109	TP03-1.4-1.5	Aug 09, 2022		Soil	S22-Au0036083						X																
110	TP04-0.4-0.5	Aug 09, 2022		Soil	S22-Au0036084						X																
111	TP04-0.5-0.7	Aug 09, 2022		Soil	S22-Au0036085						X																

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Project ID: 63097

Eurofins Analytical Services Manager : Andrew Black

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
112	TP04-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036086						X																
113	TP04-1.0-1.1	Aug 09, 2022		Soil	S22-Au0036087						X																
114	TP05-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036088						X																
115	TP05-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036089						X																
116	TP06-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036090						X																
117	TP06-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036091						X																
118	TP07-0.1-0.2	Aug 09, 2022		Soil	S22-Au0036092						X																
119	TP07-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036093						X																
120	TP08-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036094						X																
121	TP09-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036095						X																
122	TP09-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036096						X																
123	TP10-0.1-0.4	Aug 09, 2022		Soil	S22-Au0036097						X																
124	TP10-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036098						X																
125	TP10-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036099						X																

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Eurofins Analytical Services Manager : Andrew Black

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
126	TP11-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036100						X																
127	TP11-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036101						X																
128	TP12-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036102						X																
129	TP13-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036103						X																
130	TP14-0-0.3	Aug 09, 2022		Soil	S22-Au0036104	X																					
131	TP14-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036105						X																
132	TP14-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036106						X																
133	TP15-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036107						X																
134	TP15-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036108						X																
135	TP16-0.3-0.4	Aug 09, 2022		Soil	S22-Au0036109	X																					
136	TP16-0.5-0.6	Aug 09, 2022		Soil	S22-Au0036110						X																
137	TP17-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036111						X																
138	TP17-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036112						X																
139	TP18-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036113						X																

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
140	TP20-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036114						X																
141	TP21-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036115						X																
142	TP21-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036116						X																
143	TP22-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036117						X																
144	TP22-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036118						X																
145	TP23-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036119						X																
146	TP23-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036120						X																
147	TP24-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036121						X																
148	TP24-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036122						X																
149	TP25-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036123						X																
150	TP25-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036124						X																
151	TP26-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036125						X																
152	TP27-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036126						X																
153	TP27-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036127						X																

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
154	TP27-0.2-1.0	Aug 10, 2022		Soil	S22-Au0036128						X																
155	TP28-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036129						X																
156	TP29-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036130						X																
157	TP29-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036131						X																
158	TP30-0.2-0.4	Aug 10, 2022		Soil	S22-Au0036132						X																
159	TP30-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036133						X																
160	TP30-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036134						X																
161	TP31-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036135						X																
162	TP31-0.7-0.8	Aug 10, 2022		Soil	S22-Au0036136						X																
163	TP32-0-0.2	Aug 10, 2022		Soil	S22-Au0036137	X																					
164	TP32-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036138						X																
165	TP32-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036139						X																
166	TP32-1.0-1.1	Aug 10, 2022		Soil	S22-Au0036140						X																
167	TP33-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036141						X																

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Order No.:
Report #: 914805
Phone: 02 8245 0300
Fax:

Received: Aug 16, 2022 1:47 PM
Due: Aug 19, 2022
Priority: 3 Day
Contact Name: Gina Pinget

Project Name: WENTWORTH HEALTH SERVICES REDEVELOPMENT
Project ID: 63097

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25 °C)	E.coli (MPN)	HOLD	pH (at 25 °C)	Thermotolerant Coliforms (MPN)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Total Dissolved Solids Dried at 180 °C ± 2 °C
Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
168	TP33-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036142						X																
169	TP33-1.0-1.1	Aug 10, 2022		Soil	S22-Au0036143						X																
170	TP34-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036144						X																
171	FRAG_TP34-0-0.2	Aug 10, 2022		Building Materials	S22-Au0036145						X																
172	TP35-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036146						X																
173	TP36-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036147						X																
174	TP36-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036148						X																
175	TP37-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036149						X																
176	TP37-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036150						X																
177	TP38-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036151						X																
178	TP38-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036152						X																
179	TP39-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036153						X																
180	TP39-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036154						X																

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Melbourne Laboratory - NATA # 1261 Site # 1254																			X			X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						X			X		
181	TP40-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036155						X																
182	TP40-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036156						X																
183	TP41-0.3-0.4	Aug 10, 2022		Soil	S22-Au0036157						X																
184	TP42-0.1-0.2	Aug 10, 2022		Soil	S22-Au0036158						X																
185	TP42-0.5-0.6	Aug 10, 2022		Soil	S22-Au0036159						X																
186	HA43-0.2-0.3	Aug 11, 2022		Soil	S22-Au0036160						X																
187	HA44-0.2-0.3	Aug 11, 2022		Soil	S22-Au0036161						X																
188	HA45-0.2-0.3	Aug 11, 2022		Soil	S22-Au0036162						X																
189	BH46-0.3-0.4	Aug 11, 2022		Soil	S22-Au0036163						X																
190	BH46-0.5-0.6	Aug 11, 2022		Soil	S22-Au0036164						X																
191	HA48-0.2-0.3	Aug 11, 2022		Soil	S22-Au0036165						X																
192	HA49-0.1-0.2	Aug 11, 2022		Soil	S22-Au0036166						X																
193	HA50-0.2-0.3	Aug 11, 2022		Soil	S22-Au0036167						X																
Test Counts						55	6	2	3	6	90	3	6	16	27	27	16	1	3	11	55	5	23	3	7	1	3

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**µg/L:** micrograms per litre
ppm: parts per million	**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

Terms

APHA	American Public Health Association
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 a moisture has been determined on a solid sample the result is expressed on a dry 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 is representative of 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 like compound to the analyte target and reported as percentage recovery.
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 5.4
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 be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

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

Results <10 times the LOR: No Limit

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

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

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

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

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

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QC Data General Comments

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01			0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01			0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05			0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05			0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05			0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/L	< 0.05			0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/L	< 0.05			0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05			0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01			0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01			0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01			0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01			0.01	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/L	< 0.05			0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01			0.01	Pass	
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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Naphthalene	mg/L	< 0.01			0.01	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001			0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.005			0.005	Pass	
2-Propanone (Acetone)	mg/L	< 0.005			0.005	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.005			0.005	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	
Bromomethane	mg/L	< 0.005			0.005	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	
Chlorobenzene	mg/L	< 0.001			0.001	Pass	
Chloroethane	mg/L	< 0.005			0.005	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	
Chloromethane	mg/L	< 0.005			0.005	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Dibromochloromethane	mg/L	< 0.001			0.001	Pass	
Dibromomethane	mg/L	< 0.001			0.001	Pass	
Dichlorodifluoromethane	mg/L	< 0.005			0.005	Pass	
Iodomethane	mg/L	< 0.001			0.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001			0.001	Pass	
Methylene Chloride	mg/L	< 0.005			0.005	Pass	
Styrene	mg/L	< 0.001			0.001	Pass	
Tetrachloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Trichloroethene	mg/L	< 0.001			0.001	Pass	
Trichlorofluoromethane	mg/L	< 0.005			0.005	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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							
Organochlorine Pesticides							
Chlordanes - Total	mg/L	< 0.002			0.002	Pass	
4.4'-DDD	mg/L	< 0.0002			0.0002	Pass	
4.4'-DDE	mg/L	< 0.0002			0.0002	Pass	
4.4'-DDT	mg/L	< 0.0002			0.0002	Pass	
a-HCH	mg/L	< 0.0002			0.0002	Pass	
Aldrin	mg/L	< 0.0002			0.0002	Pass	
b-HCH	mg/L	< 0.0002			0.0002	Pass	
d-HCH	mg/L	< 0.0002			0.0002	Pass	
Dieldrin	mg/L	< 0.0002			0.0002	Pass	
Endosulfan I	mg/L	< 0.0002			0.0002	Pass	
Endosulfan II	mg/L	< 0.0002			0.0002	Pass	
Endosulfan sulphate	mg/L	< 0.0002			0.0002	Pass	
Endrin	mg/L	< 0.0002			0.0002	Pass	
Endrin aldehyde	mg/L	< 0.0002			0.0002	Pass	
Endrin ketone	mg/L	< 0.0002			0.0002	Pass	
g-HCH (Lindane)	mg/L	< 0.0002			0.0002	Pass	
Heptachlor	mg/L	< 0.0002			0.0002	Pass	
Heptachlor epoxide	mg/L	< 0.0002			0.0002	Pass	
Hexachlorobenzene	mg/L	< 0.0002			0.0002	Pass	
Methoxychlor	mg/L	< 0.0002			0.0002	Pass	
Toxaphene	mg/L	< 0.005			0.005	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/L	< 0.005			0.005	Pass	
Aroclor-1221	mg/L	< 0.005			0.005	Pass	
Aroclor-1232	mg/L	< 0.005			0.005	Pass	
Aroclor-1242	mg/L	< 0.005			0.005	Pass	
Aroclor-1248	mg/L	< 0.005			0.005	Pass	
Aroclor-1254	mg/L	< 0.005			0.005	Pass	
Aroclor-1260	mg/L	< 0.005			0.005	Pass	
Total PCB*	mg/L	< 0.005			0.005	Pass	
Method Blank							
Heavy Metals							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Arsenic	mg/L	< 0.001			0.001	Pass	
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Cadmium (filtered)	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Copper (filtered)	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Lead (filtered)	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Mercury (filtered)	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
Method Blank							
Conductivity (at 25 °C)	uS/cm	< 10			10	Pass	
Total Dissolved Solids Dried at 180 °C ± 2 °C	mg/L	< 10			10	Pass	
Method Blank							
Alkali Metals							
Calcium	mg/L	< 0.5			0.5	Pass	
Magnesium	mg/L	< 0.5			0.5	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	96			70-130	Pass	
Toluene	%	94			70-130	Pass	
Ethylbenzene	%	98			70-130	Pass	
m&p-Xylenes	%	101			70-130	Pass	
o-Xylene	%	98			70-130	Pass	
Xylenes - Total*	%	100			70-130	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	103			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	86			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	91			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	113			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	88			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	97			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	82			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	99			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	113			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	146			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	122			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	84			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	110			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	94			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	101			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	120			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	93			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	105			50-150	Pass	
LCS - % Recovery							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	79			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	92			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	129			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	122			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	85			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	122			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	86			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	65			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	102			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	105			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	115			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	101			50-150	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	103			70-130	Pass	
TRH C10-C14	%	129			70-130	Pass	
Naphthalene	%	98			70-130	Pass	
TRH C6-C10	%	101			70-130	Pass	
TRH >C10-C16	%	128			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	87			70-130	Pass	
1.1.1-Trichloroethane	%	84			70-130	Pass	
1.2-Dichlorobenzene	%	102			70-130	Pass	
1.2-Dichloroethane	%	99			70-130	Pass	
Trichloroethene	%	90			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	88			70-130	Pass	
Acenaphthylene	%	99			70-130	Pass	
Anthracene	%	81			70-130	Pass	
Benz(a)anthracene	%	86			70-130	Pass	
Benzo(a)pyrene	%	96			70-130	Pass	
Benzo(b&j)fluoranthene	%	94			70-130	Pass	
Benzo(g.h.i)perylene	%	96			70-130	Pass	
Benzo(k)fluoranthene	%	99			70-130	Pass	
Chrysene	%	97			70-130	Pass	
Dibenz(a.h)anthracene	%	90			70-130	Pass	
Fluoranthene	%	84			70-130	Pass	
Fluorene	%	77			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	89			70-130	Pass	
Naphthalene	%	79			70-130	Pass	
Phenanthrene	%	77			70-130	Pass	
Pyrene	%	75			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	82			70-130	Pass	
4.4'-DDD	%	81			70-130	Pass	
4.4'-DDE	%	74			70-130	Pass	
a-HCH	%	75			70-130	Pass	
Aldrin	%	74			70-130	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
b-HCH			%	78			70-130	Pass	
d-HCH			%	92			70-130	Pass	
Dieldrin			%	87			70-130	Pass	
Endosulfan I			%	86			70-130	Pass	
Endosulfan II			%	88			70-130	Pass	
Endosulfan sulphate			%	123			70-130	Pass	
Endrin			%	73			70-130	Pass	
Endrin aldehyde			%	76			70-130	Pass	
Endrin ketone			%	88			70-130	Pass	
g-HCH (Lindane)			%	88			70-130	Pass	
Heptachlor			%	88			70-130	Pass	
Heptachlor epoxide			%	86			70-130	Pass	
Hexachlorobenzene			%	80			70-130	Pass	
Methoxychlor			%	89			70-130	Pass	
LCS - % Recovery									
Polychlorinated Biphenyls									
Aroclor-1016			%	96			70-130	Pass	
Aroclor-1260			%	95			70-130	Pass	
LCS - % Recovery									
Heavy Metals									
Arsenic			%	107			80-120	Pass	
Arsenic (filtered)			%	86			80-120	Pass	
Cadmium			%	105			80-120	Pass	
Cadmium (filtered)			%	89			80-120	Pass	
Chromium			%	107			80-120	Pass	
Chromium (filtered)			%	86			80-120	Pass	
Copper			%	105			80-120	Pass	
Copper (filtered)			%	86			80-120	Pass	
Lead			%	96			80-120	Pass	
Lead (filtered)			%	89			80-120	Pass	
Mercury			%	108			80-120	Pass	
Mercury (filtered)			%	106			80-120	Pass	
Nickel			%	104			80-120	Pass	
Nickel (filtered)			%	86			80-120	Pass	
Zinc			%	108			80-120	Pass	
Zinc (filtered)			%	81			80-120	Pass	
LCS - % Recovery									
Conductivity (at 25 °C)			%	97			70-130	Pass	
LCS - % Recovery									
Alkali Metals									
Calcium			%	112			80-120	Pass	
Magnesium			%	120			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	N22-Au0038399	NCP	%	129			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthylene	S22-Au0035214	NCP	%	50			70-130	Fail	Q08
Anthracene	S22-Au0035214	NCP	%	105			70-130	Pass	
Benz(a)anthracene	S22-Au0035214	NCP	%	83			70-130	Pass	
Benzo(a)pyrene	S22-Au0035214	NCP	%	90			70-130	Pass	
Benzo(b&j)fluoranthene	S22-Au0035214	NCP	%	100			70-130	Pass	
Benzo(g.h.i)perylene	S22-Au0035214	NCP	%	122			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(k)fluoranthene	S22-Au0035214	NCP	%	101			70-130	Pass	
Chrysene	S22-Au0035214	NCP	%	89			70-130	Pass	
Dibenz(a.h)anthracene	S22-Au0035214	NCP	%	114			70-130	Pass	
Fluoranthene	S22-Au0035214	NCP	%	92			70-130	Pass	
Fluorene	S22-Au0035214	NCP	%	79			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S22-Au0035214	NCP	%	116			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S22-Au0035214	NCP	%	76			70-130	Pass	
4.4'-DDD	S22-Au0035214	NCP	%	101			70-130	Pass	
4.4'-DDE	S22-Au0035214	NCP	%	84			70-130	Pass	
4.4'-DDT	S22-Au0035214	NCP	%	100			70-130	Pass	
a-HCH	S22-Au0035214	NCP	%	84			70-130	Pass	
Aldrin	S22-Au0035214	NCP	%	76			70-130	Pass	
b-HCH	S22-Au0035214	NCP	%	111			70-130	Pass	
d-HCH	S22-Au0035214	NCP	%	85			70-130	Pass	
Dieldrin	S22-Au0035214	NCP	%	75			70-130	Pass	
Endosulfan sulphate	S22-Au0035214	NCP	%	101			70-130	Pass	
Endrin	S22-Au0035214	NCP	%	90			70-130	Pass	
Endrin aldehyde	S22-Au0035214	NCP	%	99			70-130	Pass	
Endrin ketone	S22-Au0035214	NCP	%	105			70-130	Pass	
g-HCH (Lindane)	S22-Au0035214	NCP	%	75			70-130	Pass	
Heptachlor	S22-Au0035214	NCP	%	85			70-130	Pass	
Heptachlor epoxide	S22-Au0035214	NCP	%	88			70-130	Pass	
Hexachlorobenzene	S22-Au0035214	NCP	%	68			70-130	Fail	Q08
Methoxychlor	S22-Au0035214	NCP	%	93			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH >C10-C16	S22-Au0035980	CP	%	130			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S22-Au0035981	CP	%	112			70-130	Pass	
Toluene	S22-Au0035981	CP	%	108			70-130	Pass	
Ethylbenzene	S22-Au0035981	CP	%	113			70-130	Pass	
m&p-Xylenes	S22-Au0035981	CP	%	118			70-130	Pass	
o-Xylene	S22-Au0035981	CP	%	116			70-130	Pass	
Xylenes - Total*	S22-Au0035981	CP	%	117			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
Naphthalene	S22-Au0035981	CP	%	117			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	S22-Au0035981	CP	%	114			70-130	Pass	
1.1.1-Trichloroethane	S22-Au0035981	CP	%	97			70-130	Pass	
1.2-Dichlorobenzene	S22-Au0035981	CP	%	120			70-130	Pass	
1.2-Dichloroethane	S22-Au0035981	CP	%	114			70-130	Pass	
Trichloroethene	S22-Au0035981	CP	%	99			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S22-Au0035982	CP	%	118			75-125	Pass	
Arsenic (filtered)	S22-Au0035982	CP	%	100			75-125	Pass	
Cadmium	S22-Au0035982	CP	%	115			75-125	Pass	
Cadmium (filtered)	S22-Au0035982	CP	%	97			75-125	Pass	
Chromium	S22-Au0035982	CP	%	99			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chromium (filtered)	S22-Au0035982	CP	%	82			75-125	Pass	
Copper	S22-Au0035982	CP	%	93			75-125	Pass	
Copper (filtered)	S22-Au0035982	CP	%	79			75-125	Pass	
Lead	S22-Au0035982	CP	%	97			75-125	Pass	
Lead (filtered)	S22-Au0035982	CP	%	82			75-125	Pass	
Mercury	S22-Au0035982	CP	%	103			75-125	Pass	
Mercury (filtered)	S22-Au0035982	CP	%	93			75-125	Pass	
Nickel	S22-Au0035982	CP	%	93			75-125	Pass	
Nickel (filtered)	S22-Au0035982	CP	%	81			75-125	Pass	
Zinc	S22-Au0035982	CP	%	96			75-125	Pass	
Zinc (filtered)	S22-Au0035982	CP	%	86			75-125	Pass	
Spike - % Recovery									
Alkali Metals				Result 1					
Calcium	S22-Au0035982	CP	%	116			75-125	Pass	
Magnesium	S22-Au0035982	CP	%	110			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	S22-Au0035989	CP	%	108			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	S22-Au0035989	CP	%	86			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	S22-Au0035989	CP	%	98			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	S22-Au0035989	CP	%	122			50-150	Pass	
Perfluorooctanoic acid (PFOA)	S22-Au0035989	CP	%	94			50-150	Pass	
Perfluorononanoic acid (PFNA)	S22-Au0035989	CP	%	103			50-150	Pass	
Perfluorodecanoic acid (PFDA)	S22-Au0035989	CP	%	91			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	S22-Au0035989	CP	%	110			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	S22-Au0035989	CP	%	110			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	S22-Au0035989	CP	%	146			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S22-Au0035989	CP	%	114			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	S22-Au0035989	CP	%	77			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S22-Au0035989	CP	%	99			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S22-Au0035989	CP	%	89			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	S22-Au0035989	CP	%	80			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	S22-Au0035989	CP	%	117			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S22-Au0035989	CP	%	91			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S22-Au0035989	CP	%	106			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	S22-Au0035989	CP	%	77			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	S22-Au0035989	CP	%	89			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S22-Au0035989	CP	%	119			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S22-Au0035989	CP	%	105			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorohexanesulfonic acid (PFHxS)	S22-Au0035989	CP	%	79			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S22-Au0035989	CP	%	106			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	S22-Au0035989	CP	%	80			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	S22-Au0035989	CP	%	62			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S22-Au0035989	CP	%	102			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	S22-Au0035989	CP	%	105			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S22-Au0035989	CP	%	116			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S22-Au0035989	CP	%	98			50-150	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S22-Au0039600	NCP	ug/L	0.53	0.56	5.8	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S22-Au0039600	NCP	ug/L	0.56	0.61	8.0	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S22-Au0039600	NCP	ug/L	0.79	0.81	2.8	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S22-Au0039600	NCP	ug/L	0.23	0.28	20	30%	Pass	
Perfluorooctanoic acid (PFOA)	S22-Au0039600	NCP	ug/L	0.16	0.16	1.9	30%	Pass	
Perfluorononanoic acid (PFNA)	S22-Au0039600	NCP	ug/L	0.13	0.15	14	30%	Pass	
Perfluorodecanoic acid (PFDA)	S22-Au0039600	NCP	ug/L	0.21	0.22	5.1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S22-Au0039600	NCP	ug/L	0.24	0.26	9.5	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S22-Au0039600	NCP	ug/L	0.23	0.23	2.2	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S22-Au0039600	NCP	ug/L	0.24	0.23	4.1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S22-Au0039600	NCP	ug/L	0.23	0.26	12	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S22-Au0039600	NCP	ug/L	< 0.5	< 0.5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S22-Au0039600	NCP	ug/L	< 0.5	< 0.5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S22-Au0039600	NCP	ug/L	< 0.5	< 0.5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	S22-Au0039600	NCP	ug/L	< 0.5	< 0.5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	S22-Au0039600	NCP	ug/L	< 0.5	< 0.5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S22-Au0039600	NCP	ug/L	< 0.5	< 0.5	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S22-Au0039600	NCP	ug/L	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S22-Au0039600	NCP	ug/L	< 0.1	< 0.1	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S22-Au0039600	NCP	ug/L	< 0.1	< 0.1	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S22-Au0039600	NCP	ug/L	< 0.1	< 0.1	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S22-Au0039600	NCP	ug/L	0.20	0.23	11	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S22-Au0039600	NCP	ug/L	0.29	0.31	5.2	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S22-Au0039600	NCP	ug/L	< 0.1	< 0.1	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S22-Au0039600	NCP	ug/L	< 0.1	< 0.1	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S22-Au0039600	NCP	ug/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S22-Au0039600	NCP	ug/L	< 0.1	< 0.1	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	S22-Au0039600	NCP	ug/L	0.96	0.96	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S22-Au0039600	NCP	ug/L	< 0.1	< 0.1	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S22-Au0039600	NCP	ug/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	S22-Au0035154	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	S22-Au0035154	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	S22-Au0035154	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C10-C16	S22-Au0035154	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	S22-Au0035154	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	S22-Au0035154	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	N22-Au0031887	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	N22-Au0031887	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	N22-Au0031887	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	N22-Au0031887	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	N22-Au0031887	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	N22-Au0031887	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	N22-Au0031887	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	N22-Au0031887	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	N22-Au0031887	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	N22-Au0031887	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	N22-Au0031887	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	N22-Au0031887	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	N22-Au0031887	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	N22-Au0031887	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Phenanthrene	N22-Au0031887	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Pyrene	N22-Au0031887	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	N22-Au0031887	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
4.4'-DDD	N22-Au0031887	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
4.4'-DDE	N22-Au0031887	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
4.4'-DDT	N22-Au0031887	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Aldrin	N22-Au0031887	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
b-HCH	N22-Au0031887	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
d-HCH	N22-Au0031887	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Dieldrin	N22-Au0031887	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan I	N22-Au0031887	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan II	N22-Au0031887	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan sulphate	N22-Au0031887	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin	N22-Au0031887	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin aldehyde	N22-Au0031887	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin ketone	N22-Au0031887	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor	N22-Au0031887	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor epoxide	N22-Au0031887	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Hexachlorobenzene	N22-Au0031887	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Methoxychlor	N22-Au0031887	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Toxaphene	N22-Au0031887	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	N22-Au0031887	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1221	N22-Au0031887	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1232	N22-Au0031887	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1242	N22-Au0031887	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1248	N22-Au0031887	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1254	N22-Au0031887	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1260	N22-Au0031887	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Total PCB*	N22-Au0031887	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S22-Au0035979	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	S22-Au0035979	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	S22-Au0035979	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper	S22-Au0034628	NCP	mg/L	0.010	0.010	<1	30%	Pass	
Lead	S22-Au0035979	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	S22-Au0035979	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	S22-Au0035979	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Zinc	S22-Au0034628	NCP	mg/L	0.032	0.028	11	30%	Pass	
Duplicate									
Alkali Metals				Result 1	Result 2	RPD			
Calcium	S22-Au0035979	CP	mg/L	< 0.5	< 0.5	<1	30%	Pass	
Magnesium	S22-Au0035979	CP	mg/L	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S22-Au0035980	CP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	S22-Au0035980	CP	mg/L	< 0.003	< 0.003	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S22-Au0035980	CP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Naphthalene	S22-Au0035980	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH C6-C10	S22-Au0035980	CP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1-Dichloroethene	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1-Trichloroethane	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2-Trichloroethane	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dibromoethane	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichlorobenzene	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloroethane	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloropropane	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.3-Trichloropropane	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.4-Trimethylbenzene	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichlorobenzene	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichloropropane	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3.5-Trimethylbenzene	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.4-Dichlorobenzene	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
2-Butanone (MEK)	S22-Au0035980	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
2-Propanone (Acetone)	S22-Au0035980	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
4-Chlorotoluene	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S22-Au0035980	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Allyl chloride	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromobenzene	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromochloromethane	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromodichloromethane	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromoform	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromomethane	S22-Au0035980	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Carbon disulfide	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Carbon Tetrachloride	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chlorobenzene	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chloroethane	S22-Au0035980	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chloroform	S22-Au0035980	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chloromethane	S22-Au0035980	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
cis-1.2-Dichloroethene	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
cis-1.3-Dichloropropene	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibromochloromethane	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibromomethane	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dichlorodifluoromethane	S22-Au0035980	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Iodomethane	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Isopropyl benzene (Cumene)	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Methylene Chloride	S22-Au0035980	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Styrene	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Tetrachloroethene	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
trans-1.2-Dichloroethene	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
trans-1.3-Dichloropropene	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Trichloroethene	S22-Au0035980	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Trichlorofluoromethane	S22-Au0035980	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Vinyl chloride	S22-Au0035980	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic (filtered)	S22-Jl0004067	NCP	mg/L	0.002	0.002	6.8	30%	Pass	
Cadmium (filtered)	S22-Jl0004067	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium (filtered)	S22-Jl0004067	NCP	mg/L	0.003	0.003	1.8	30%	Pass	
Copper (filtered)	S22-Jl0004067	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead (filtered)	S22-Jl0004067	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury (filtered)	S22-Jl0004067	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel (filtered)	S22-Jl0004067	NCP	mg/L	0.001	0.001	7.4	30%	Pass	
Zinc (filtered)	S22-Jl0004067	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (at 25 °C)	S22-Au0035980	CP	uS/cm	2600	2400	7.5	30%	Pass	
Total Dissolved Solids Dried at 180 °C ± 2 °C	S22-Au0035980	CP	mg/L	3400	3400	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S22-Au0035995	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	S22-Au0035995	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	S22-Au0035995	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead	S22-Au0035995	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	S22-Au0035995	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	S22-Au0035995	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Duplicate									
Alkali Metals				Result 1	Result 2	RPD			
Calcium	S22-Au0035995	CP	mg/L	< 0.5	< 0.5	<1	30%	Pass	
Magnesium	S22-Au0035995	CP	mg/L	< 0.5	< 0.5	<1	30%	Pass	

Comments

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.
Q09	The Surrogate recovery is outside of the recommended acceptance criteria due to matrix interference. Acceptance criteria were met for all other QC

Authorised by:

Quinn Raw	Analytical Services Manager
Dilani Samarakoon	Senior Analyst-Inorganic
Gabriele Cordero	Senior Analyst-Inorganic
Gabriele Cordero	Senior Analyst-Metal
Jonathon Angell	Senior Analyst-PFAS
Roopesh Rangarajan	Senior Analyst-Organic
Roopesh Rangarajan	Senior Analyst-Volatile

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please click here.

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ANALYTICAL REPORT

REPORT CODE	AR-22-NV-010827-01	REPORT DATE	18/08/2022

For the attention of

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Contact for your orders:	Ruvini Herath	**Order code:**	EUAUTWU-00021143
Submission Reference:	Merged from order cau001-order-914805-220817.xml	**Purchase Order Number:**	914805

SAMPLE CODE 726-2022-00030191

Client Reference:	22-Au0036013		
Sample described as:	TP14-0-0.1		
Reception Date:	17/08/2022	**Reception temperature:**	5.3 °C
Analysis Starting Date:	17/08/2022	**Analysis Ending Date:**	18/08/2022
Sampled Date & Time	09/08/2022 12:00:00		

	RESULTS		LOQ
VQ239 E.coli			
Analysis Starting Date: 17/08/2022 10:00			
E.Coli	<10	MPN/g	1
◆ **VQ255 Thermotolerant Coliforms**			
Analysis Starting Date: 17/08/2022 10:00			
Thermotolerant coliforms	<10	MPN/g	1

SAMPLE CODE 726-2022-00030192

Client Reference:	22-Au0035986		
Sample described as:	QC20220810-01		
Reception Date:	17/08/2022	**Reception temperature:**	5.3 °C
Analysis Starting Date:	17/08/2022	**Analysis Ending Date:**	18/08/2022
Sampled Date & Time	10/08/2022 12:00:00		

	RESULTS		LOQ
VQ239 E.coli			
Analysis Starting Date: 17/08/2022 10:00			
E.Coli	<10	MPN/g	1
◆ **VQ255 Thermotolerant Coliforms**			
Analysis Starting Date: 17/08/2022 10:00			
Thermotolerant coliforms	<10	MPN/g	1

SAMPLE CODE 726-2022-00030193

Client Reference: 22-Au0036020
Sample described as: TP18-0-0.1
Reception Date: 17/08/2022
Analysis Starting Date: 17/08/2022
Sampled Date & Time 10/08/2022 12:00:00
Reception temperature: 5.3 °C
Analysis Ending Date: 18/08/2022

	RESULTS		LOQ
VQ239 E.coli			
Analysis Starting Date: 17/08/2022 10:00			
E.Coli	<10	MPN/g	1
◆ **VQ255 Thermotolerant Coliforms**			
Analysis Starting Date: 17/08/2022 10:00			
Thermotolerant coliforms	<10	MPN/g	1

SAMPLE CODE 726-2022-00030194

Client Reference: 22-Au0036027
Sample described as: TP23-0-0.1
Reception Date: 17/08/2022
Analysis Starting Date: 17/08/2022
Sampled Date & Time 10/08/2022 12:00:00
Reception temperature: 5.3 °C
Analysis Ending Date: 18/08/2022

	RESULTS		LOQ
VQ239 E.coli			
Analysis Starting Date: 17/08/2022 10:00			
E.Coli	<10	MPN/g	1
◆ **VQ255 Thermotolerant Coliforms**			
Analysis Starting Date: 17/08/2022 10:00			
Thermotolerant coliforms	<10	MPN/g	1

SAMPLE CODE 726-2022-00030195

Client Reference: 22-Au0036028
Sample described as: TP24-0-0.1
Reception Date: 17/08/2022
Analysis Starting Date: 17/08/2022
Sampled Date & Time 10/08/2022 12:00:00
Reception temperature: 5.3 °C
Analysis Ending Date: 18/08/2022

	RESULTS		LOQ
VQ239 E.coli			
Analysis Starting Date: 17/08/2022 10:00			
E.Coli	<10	MPN/g	1
◆ **VQ255 Thermotolerant Coliforms**			
Analysis Starting Date: 17/08/2022 10:00			
Thermotolerant coliforms	10	MPN/g	1

SAMPLE CODE 726-2022-00030196

Client Reference: 22-Au0036052
Sample described as: TP34-0-0.1
Reception Date: 17/08/2022
Analysis Starting Date: 17/08/2022
Sampled Date & Time 10/08/2022 12:00:00
Reception temperature: 5.3 °C
Analysis Ending Date: 18/08/2022

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Accreditation Number 20293

	RESULTS		LOQ
VQ239 E.coli			
Analysis Starting Date: 17/08/2022 10:00			
E.Coli	<10	MPN/g	1
◆ **VQ255 Thermotolerant Coliforms**			
Analysis Starting Date: 17/08/2022 10:00			
Thermotolerant coliforms	<10	MPN/g	1

LIST OF METHODS

VQ239	**E.coli:** Internal Method, E-Cultural technique (MPN tubes)	VQ255	**Thermotolerant Coliforms:** Internal Method, E-Cultural technique (MPN tubes)

Signature

Komal Gosain Laboratory Manager

EXPLANATORY NOTE

- ◆ Test is not accredited
- ○ Test is subcontracted within Eurofins group and is accredited
- ● Test is subcontracted within Eurofins group and is not accredited
- □ Test is subcontracted outside Eurofins group and is accredited
- ■ Test is subcontracted outside Eurofins group and is not accredited

N/A means Not applicable
Not Detected means not detected at or above the Limit of Quantification (LOQ)
LOQ Limit of Quantification
U Measurement Uncertainty
< Less than, ≤ Less than or equal to
> Greater than, ≥ Greater than or equal to
The tests are identified by a 5 digit code, full details can be provided on request.
Information supplied by the client. This information can have an impact on the validity of results.
Samples are tested as received and the results relate only to the sample tested.
Analysis date is reported as the start date of extraction for a method.
The results may not be reproduced except in full, without a written approval from the laboratory.

Eurofins General Terms and Conditions apply.

END OF REPORT

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Melbourne
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Phone +61385645000
https://www.eurofins.com.au/food-testing

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.
Accreditation Number 20293

eurofins | Environment Testing

www.eurofins.com.au EnviroSales@eurofins.com

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Auckland 1061	Christchurch 7675
Tel: +64 9 526 45 51	Tel: 0800 856 450
IANZ# 1327	IANZ# 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Gina Pinget
Project name:	WENTWORTH HEALTH SERVICES REDEVELOPMENT
Project ID:	63097
Turnaround time:	3 Day
Date/Time received	Aug 16, 2022 1:47 PM
Eurofins reference	914805

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 12.6 degrees Celsius.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- ✓ Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- **N/A** Custody Seals intact (if used).

Notes

Contact

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

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

Results will be delivered electronically via email to Gina Pinget - gpinget@jbsg.com.au.

Global Leader - Results you can trust

CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing ABN 50 005 085 521

☑ Sydney Laboratory
179 Magowar Road Girraween NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

☐ Brisbane Laboratory
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07 3902 4600 EnviroSampleQLD@eurofins.com

☐ Perth Laboratory
46-48 Banksia Road Welshpool WA 6106
08 6253 4444 Samples@ARLgroup.com.au

☐ Melbourne Laboratory
5 Monterey Road Dandenong South VIC 3175
03 8564 5000 EnviroSampleVic@eurofins.com

Company	JBS & G Australia (NSW) P/L	Project №	63097	Project Manager	Gina Pinget
Address	Level 1, 50 Margaret Street, Sydney NSW 2000	Project Name	Wentworth Health Services Redevelopment	EDD Format (Esdat, EQuIS etc)	
Contact Name	Gina Pinget			Facility Code	
Phone №	0425 853 573				
Special Directions	Please refridgerate immediately				
Purchase Order					
Quote ID №					

Sampler(s)	Gina Pinget
Handed over by	Gina Pinget
Email for Invoice	adminnsw@jbsg.com.au
Email for Results	gpinget@jbsg.com.au

Containers (Change container type & size if necessary)

Required Turnaround Time (TAT) (Default will be 5 days if not specified)

◆Surcharge will apply
Overnight (reporting by 9am)◆
Same day◆ 1 day◆
2 days◆ 3 days◆
5 days (Standard)
Other( )

Analyses (Please specify "Total" or "Filtered" SQUIRT more than one test on same SUITE please)

№	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Soil, Sy, Water, W)	TCE/PCE	pH, Electrical Conductivity, TDS, Hardness	NEPM Screen for Soil Classification	B7 - Eurofins Suite B7 (TRH, PAH, BTEX, M8)	M8 - Metals M8 (As, Cd, Cr, Cu, Pb, Hg, Ni, Zn)	TRH - Total Recoverable Hydrocarbons	PAH - Polycyclic Aromatic Hydrocarbons	OCP - Organochlorine Pesticides	PCB - Polychlorinated Biphenyls	VOC - Volatile Organics	BTEX	Asbestos - Presence/Absence	Asbestos - WA guidelines	PFASfull - Per- and Polyfluoroalkyl Substances (PFASs)	BTEX - Trip Spike	E.Coli and Faecal Coliforms	Biological jar	Green inorganic bottle	500mL Amber Glass	250mL Amber Glass	40mL VOA vial	500mL PFAS Bottle	Jar (Glass or HDPE)	Other (Asbestos AS4964, WA Guidelines)	Metals (filtered)	Sample Comments / Dangerous Goods Hazard Warning
1	Trip spike	12/08/22	Trip Spike (liquid)															X						2					
2	Trip blank	12/08/22	Trip Blank (liquid)															X						2					
3	Blank	12/08/22	Water														X								1				
4	RIN20220811-W	11/08/22	Water				X				X	X	X				X						1	2	1			1	
5	QC-MW	11/08/22	Water	X	X		X						X				X				1	1	1	4	1			1	
6	MW03	11/08/22	Water	X	X		X						X				X				2	1	1	4	1			1	
7	MW04	11/08/22	Water	X	X		X						X				X				2	1	1	4	1			1	
8	Frag-01	10/08/22	Building Materials																								1		
9	Frag-02	10/08/22	Building Materials												X												1		
10	Frag-03	10/08/22	Building Materials																								1		
11	Frag-04	11/08/22	Building Materials												X												1		
12	QC20220809-01	9/08/22	Soil								X	X				X										1	1		
13	QC20220810-01	10/08/22	Soil				X									X			X	1						1	1		
14	QC20220811-01	11/08/22	Soil					X		X	X	X	X			X										1	1		
15	HP01	11/08/22	Water														X								1				
16	HP02	11/08/22	Water														X								1				
17	TP01-0-0.1	9/08/22	Soil				X				X	X														1			

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18	TP01-0-0.3	9/08/22	Soil													X										1		
19	TP01-0.3-0.4	9/08/22	Soil																						1	1		
20	TP01-0.5-0.6	9/08/22	Soil			X																			1			
21	TP02-0-0.1	9/08/22	Soil								X	X													1			
22	TP02-0-0.4	9/08/22	Soil													X										1		
23	TP02-0.3-0.4	9/08/22	Soil																						1			
24	TP02-0.5-0.6	9/08/22	Soil																						1			
25	TP02-1.0-1.1	9/08/22	Soil																						1			
26	RIN20220811-S	11/08/22	Water				X						X									1	2				1	
27	SS01-0-0.1	9/08/22	Soil				X						X												1			
28	TP03-0-0.1	9/08/22	Soil				X				X	X													1			
29	TP03-0.3-0.4	9/08/22	Soil																						1			
30	TP03-0.5-0.6	9/08/22	Soil																						1			
31	TP03-1.4-1.5	9/08/22	Soil																						1			
32	TP03-0-1.0	9/08/22	Soil													X										1		
33	TP04-0-0.4	9/08/22	Soil													X										1		
34	TP04-0-0.1	9/08/22	Soil								X	X	X												1			
35	TP04-0.4-0.5	9/08/22	Soil																						1	1		
36	TP04-0.5-0.7	9/08/22	Soil																							1		
37	TP04-0.5-0.6	9/08/22	Soil																						1			
38	TP04-1.0-1.1	9/08/22	Soil																						1			
39	TP05-0-0.1	9/08/22	Soil				X				X	X				X									1	1		
40	TP05-0.3-0.4	9/08/22	Soil																						1			
41	TP05-0.5-0.6	9/08/22	Soil																						1			
42	TP06-0-0.1	9/08/22	Soil								X	X				X									1	1		
43	TP06-0.3-0.4	9/08/22	Soil																						1			
44	TP06-0.5-0.6	9/08/22	Soil																						1			

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45	TP07-0-0.1	9/08/22	Soil				X				X	X				X										1	1	
46	TP07-0.1-0.2	9/08/22	Soil																							1	1	
47	TP07-0.3-0.4	9/08/22	Soil																							1		
48	TP07-0.5-0.6	9/08/22	Soil			X																				1		
49	TP08-0-0.1	9/08/22	Soil								X	X				X										1	1	
50	TP08-0.3-0.4	9/08/22	Soil																							1		
51	TP09-0-0.2	9/08/22	Soil													X											1	
52	TP09-0-0.1	9/08/22	Soil								X	X														1		
53	TP09-0.3-0.4	9/08/22	Soil																							1		
54	TP09-0.5-0.6	9/08/22	Soil																							1		
55	TP10-0-0.1	9/08/22	Soil					X		X	X	X				X										1	1	
56	TP10-0.1-0.4	9/08/22	Soil																								1	
57	TP10-0.3-0.4	9/08/22	Soil																							1		
58	TP10-0.5-0.6	9/08/22	Soil																							1		
59	TP11-0-0.2	9/08/22	Soil													X											1	
60	TP11-0-0.1	9/08/22	Soil				X				X	X														1		
61	TP11-0.3-0.4	9/08/22	Soil																							1		
62	TP11-0.5-0.6	9/08/22	Soil																							1		
63	TP12-0-0.1	9/08/22	Soil								X	X				X										1	1	
64	TP12-0.3-0.4	9/08/22	Soil																							1		
65	TP13-0-0.1	9/08/22	Soil				X									X										1	1	
66	TP13-0.3-0.4	9/08/22	Soil																							1		
67	TP14-0-0.1	9/08/22	Soil					X		X						X			X	1						1	1	
68	TP14-0-0.3	9/08/22	Soil																								1	
69	TP14-0.3-0.4	9/08/22	Soil																							1		
70	TP14-0.5-0.6	9/08/22	Soil																							1		
71	TP15-0-0.2	9/08/22	Soil													X											1	

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72	TP15-0-0.1	9/08/22	Soil								X	X													1			
73	TP15-0.3-0.4	9/08/22	Soil																						1			
74	TP15-0.5-0.6	9/08/22	Soil																						1			
75	TP16-0-0.5	9/08/22	Soil													X										1		
76	TP16-0-0.1	9/08/22	Soil				X																		1			
77	TP16-0.3-0.4	9/08/22	Soil																						1	1		
78	TP16-0.5-0.6	9/08/22	Soil																						1			
79	TP17-0-0.3	10/08/22	Soil													X										1		
80	TP17-0-0.1	10/08/22	Soil					X		X															1			
81	TP17-0.3-0.4	10/08/22	Soil																						1			
82	TP17-0.5-0.6	10/08/22	Soil																						1			
83	TP18-0-0.1	10/08/22	Soil				X												X	1					1			
84	TP18-0-0.2	10/08/22	Soil													X										1		
85	TP18-0.3-0.4	10/08/22	Soil																						1			
86	TP19-0-0.1	10/08/22	Soil													X									1	1		
87	TP19-0.3-0.4	10/08/22	Soil			X																			1			
88	TP20-0-0.1	10/08/22	Soil				X									X									1	1		
89	TP20-0.3-0.4	10/08/22	Soil																						1			
90	TP21-0-0.1	10/08/22	Soil													X									1	1		
91	TP21-0.3-0.4	10/08/22	Soil																						1			
92	TP21-0.5-0.6	10/08/22	Soil																						1			
93	TP22-0-0.1	10/08/22	Soil													X									1	1		
94	TP22-0.3-0.4	10/08/22	Soil																						1			
95	TP22-0.5-0.6	10/08/22	Soil																						1			
96	TP23-0-0.1	10/08/22	Soil				X									X			X	1					1	1		
97	TP23-0.3-0.4	10/08/22	Soil																						1			
98	TP23-0.5-0.6	10/08/22	Soil																						1			

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99	TP24-0-0.1	10/08/22	Soil				X									X			X	1					1	1		
100	TP24-0.3-0.4	10/08/22	Soil																						1			
101	TP24-0.5-0.6	10/08/22	Soil																						1			
102	TP25-0-0.2	10/08/22	Soil													X										1		
103	TP25-0-0.1	10/08/22	Soil					X		X	X	X													1			
104	TP25-0.2-0.25	10/08/22	Soil				X																		1	1		
105	TP25-0.3-0.4	10/08/22	Soil																						1			
106	TP25-0.5-0.6	10/08/22	Soil																						1			
107	TP26-0-0.1	10/08/22	Soil								X	X				X									1	1		
108	TP26-0.3-0.4	10/08/22	Soil																						1			
109	TP26-0.5-0.6	10/08/22	Soil			X																			1			
110	TP27-0-0.1	10/08/22	Soil								X	X													1			
111	TP27-0-0.2	10/08/22	Soil													X										1		
112	TP27-0.3-0.4	10/08/22	Soil																						1			
113	TP27-0.5-0.6	10/08/22	Soil																						1			
114	TP27-0.2-1.0	10/08/22	Soil																							1		
115	TP28-0-0.4	10/08/22	Soil													X										1		
116	TP28-0-0.1	10/08/22	Soil				X				X	X													1			
117	TP28-0.3-0.4	10/08/22	Soil																						1			
118	TP29-0-0.1	10/08/22	Soil								X	X													1			
119	TP29-0-0.2	10/08/22	Soil													X										1		
120	TP29-0.3-0.4	10/08/22	Soil																						1			
121	TP29-0.5-0.6	10/08/22	Soil																						1			
122	TP30-0-0.2	10/08/22	Soil													X										1		
123	TP30-0-0.1	10/08/22	Soil					X		X	X	X													1			
124	TP30-0.2-0.4	10/08/22	Soil																							1		
125	TP30-0.3-0.4	10/08/22	Soil																						1			

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126	TP30-0.5-0.6	10/08/22	Soil																							1			
127	TP31-0-0.1	10/08/22	Soil								X	X	X			X										1	1		
128	TP31-0.3-0.4	10/08/22	Soil																							1			
129	TP31-0.7-0.8	10/08/22	Soil																							1			
130	FRAG_TP32-0.5-0.7	10/08/22	Building Materials												X												1		
131	TP32-0-0.1	10/08/22	Soil				X				X	X														1			
132	TP32-0-0.2	10/08/22	Soil																								1		
133	TP32-0.2-0.5	10/08/22	Soil													X											1		
134	TP32-0.3-0.4	10/08/22	Soil																							1			
135	TP32-0.5-0.6	10/08/22	Soil																							1			
136	TP32-0.5-0.7	10/08/22	Soil													X											1		
137	TP32-1.0-1.1	10/08/22	Soil																							1			
138	TP33-0-0.4	10/08/22	Soil													X											1		
139	TP33-0-0.1	10/08/22	Soil								X	X														1			
140	TP33-0.3-0.4	10/08/22	Soil																							1			
141	TP33-0.4-0.7	10/08/22	Soil													X											1		
142	TP33-0.5-0.6	10/08/22	Soil																							1			
143	TP33-1.0-1.1	10/08/22	Soil																							1			
144	FRAG_TP03-0-0.4	9/08/22	Building Materials												X												1		
145	FRAG_TP33-0-0.1	10/08/22	Building Materials												X												1		
146	TP34-0-0.1	10/08/22	Soil				X												X	1						1			
147	TP34-0-0.4	10/08/22	Soil													X											1		
148	TP34-0.3-0.4	10/08/22	Soil																							1			
149	FRAG_TP34-0-0.2	10/08/22	Building Materials																								1		
150	TP35-0-0.1	10/08/22	Soil					X		X						X										1	1		
151	TP35-0.3-0.4	10/08/22	Soil																							1			
152	TP35-0.5-0.6	10/08/22	Soil			X																				1			

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153	TP36-0-0.1	10/08/22	Soil													X									1	1			
154	TP36-0.3-0.4	10/08/22	Soil																						1				
155	TP36-0.5-0.6	10/08/22	Soil																						1				
156	TP37-0-0.1	10/08/22	Soil				X									X									1	1			
157	TP37-0.3-0.4	10/08/22	Soil																						1				
158	TP37-0.5-0.6	10/08/22	Soil																						1				
159	TP38-0-0.1	10/08/22	Soil													X									1	1			
160	TP38-0.3-0.4	10/08/22	Soil																						1				
161	TP38-0.5-0.6	10/08/22	Soil																						1				
162	TP39-0-0.3	10/08/22	Soil													X										1			
163	TP39-0-0.1	10/08/22	Soil					X		X															1				
164	TP39-0.3-0.4	10/08/22	Soil																						1				
165	TP39-0.5-0.6	10/08/22	Soil																						1				
166	TP40-0-0.2	10/08/22	Soil													X										1			
167	TP40-0-0.1	10/08/22	Soil				X																		1				
168	TP40-0.3-0.4	10/08/22	Soil																						1				
169	TP40-0.5-0.6	10/08/22	Soil																						1				
170	TP41-0-0.1	10/08/22	Soil					X		X						X									1	1			
171	TP41-0.3-0.4	10/08/22	Soil																						1				
172	FRAG_TP41-0-0.1	10/08/22	Building Materials												X											1			
173	TP42-0-0.1	10/08/22	Soil				X						X			X									1	1			
174	TP42-0.1-0.2	10/08/22	Soil																						1				
175	TP42-0.5-0.6	10/08/22	Soil																						1				
176	HA43-0-0.1	11/08/22	Soil					X		X						X									1	1			
177	HA43-0.2-0.3	11/08/22	Soil																						1	1			
178	HA44-0-0.1	11/08/22	Soil					X		X						X									1	1			
179	HA44-0.2-0.3	11/08/22	Soil																						1	1			

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180	HA45-0-0.1	11/08/22	Soil					X		X						X										1	1			
181	HA45-0.2-0.3	11/08/22	Soil																							1	1			
182	BH46-0-0.1	11/08/22	Soil					X		X						X										1	1			
183	BH46-0.3-0.4	11/08/22	Soil																							1				
184	BH46-0.5-0.6	11/08/22	Soil																							1				
185	HA47-0-0.2	11/08/22	Soil													X											1			
186	HA47-0-0.1	11/08/22	Soil					X		X																1				
187	HA48-0-0.1	11/08/22	Soil				X									X										1	1			
188	HA48-0.2-0.3	11/08/22	Soil																							1	1			
189	HA49-0-0.1	11/08/22	Soil					X		X	X	X				X										1	1			
190	HA49-0.1-0.2	11/08/22	Soil																							1	1			
191	HA50-0-0.1	11/08/22	Soil					X		X	X	X	X			X										1	1			
192	HA50-0.2-0.3	11/08/22	Soil																							1	1			
	Add Rows		Total Counts	3	3	5	26	16		16	27	27	11		6	55	7	2	6	6	5	3	5	20	7	144	81	5		

Method of Shipment	☐ Courier (#)	Hand Delivered	Postal	Name	Gina Pinget	Signature	Gpinget	Date	8/18/2022	Time	2:00:00 PM
Laboratory Use Only	Received By	SYD | BNE | MEL | PER | ADL | NTL | DRW	Signature	Date	Time	Temperature
	Received By	SYD | BNE | MEL | PER | ADL | NTL | DRW	Signature	Date	Time	Report №

Submission of samples to the laboratory will be deemed as acceptance of Eurofins | mgt Standard Terms and Conditions unless agreed otherwise. A copy of Eurofins | mgt Standard Terms and Conditions is available on request.

914 805

RE: Eurofins Sample Receipt Advice - Report 914805 : Site WENTWORTH HEALTH SERVICES REDEVELOPMENT (63097)

Gina Pinget <gpinget@jbsg.com.au>
Wed 2022-08-17 5:22 PM

To: #AU04_Enviro_Sample_NSW <EnviroSampleNSW@eurofins.com>

> **CAUTION:** EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.
> Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Hi Bonnie,

In their place, please analyse the following for NEPM WA:

- TP14-0-0.3
- TP16-0.3-0.4
- TP 32-0-0.2

If they do turn up, please disregard the above.

Cheers,

Gina Pinget | Project Manager | JBS&G
Gadigal Country | Level 1, 50 Margaret Street, Sydney, NSW
T: 02 8245 0300 | M: 0425 853 573 | E: gpinget@jbsg.com.au | W: jbsg.com.au | L: Conditions and Limitations

Exceptional Outcomes

From: EnviroSampleNSW@eurofins.com <EnviroSampleNSW@eurofins.com>
Sent: Wednesday, 17 August 2022 4:45 PM
To: Gina Pinget <gpinget@jbsg.com.au>
Subject: Eurofins Sample Receipt Advice - Report 914805 : Site WENTWORTH HEALTH SERVICES REDEVELOPMENT (63097)

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

Dear Valued Client,

Samples TP14-0-0.1, TP16-0-0.5 and TP35-0-0.1 asbestos bags not received, their asbestosWA analysis have been cancelled.

Please find attached a Sample Receipt Advice (SRA), a Summary Sheet and a scanned copy of your Chain-of-Custody (COC). It is important that you check this documentation to ensure that the details are correct such as the Client Job Number, Turn Around Time, any comments in the Notes section and sample numbers as well as the requested analysis. If there are any irregularities then please contact

your Eurofins | Environment Testing Analytical Services Manager as soon as possible to make certain that they get changed.

Regards

Bonnie Pu
Sample Receipt

Eurofins | Environmental Testing
Unit F3, Parkview Building
16 Mars Road
LANE COVE WEST NSW 2066
AUSTRALIA
Phone: +61 02 9900 8421
Email: EnviroSampleNSW@eurofins.com
Website:[http://]environment.eurofins.com.au

View our latest EnviroNotes
How did we do? Provide your feedback here

eurofins | How did we do? Provide your feedback HERE

eurofins | Environment Testing

www.eurofins.com.au EnviroSales@eurofins.com

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IANZ# 1327

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Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Gina Pinget
Project name:	ADDITIONAL - WENTWORTH HEALTH SERVICES REDEVELOPMENT
Project ID:	ADDITIONAL - 63097
Turnaround time:	2 Day
Date/Time received	Aug 23, 2022 3:31 PM
Eurofins reference	917148

Sample Information

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

Notes

Contact

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

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

Results will be delivered electronically via email to Gina Pinget - gpinget@jbsg.com.au.

Global Leader - Results you can trust

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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

Order No.:
Report #: 917148
Phone: 02 8245 0300
Fax:

Received: Aug 23, 2022 3:31 PM
Due: Aug 25, 2022
Priority: 2 Day
Contact Name: Gina Pinget

Project Name: ADDITIONAL - WENTWORTH HEALTH SERVICES REDEVELOPMENT
Project ID: ADDITIONAL - 63097

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Lead	USA Leaching Procedure
Sydney Laboratory - NATA # 1261 Site # 18217						X	X
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	TP25-0-0.1	Aug 10, 2022		US Leachate	S22-Au0055161	X	X
2	HA49-0-0.1	Aug 11, 2022		US Leachate	S22-Au0055162	X	X
Test Counts						2	2

eurofins | Environment Testing

Certificate of Analysis

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.

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

Attention: **Gina Pinget**

Report **917148-L**
Project name ADDITIONAL - WENTWORTH HEALTH SERVICES REDEVELOPMENT
Project ID ADDITIONAL - 63097
Received Date Aug 23, 2022

Client Sample ID			**TP25-0-0.1**	**HA49-0-0.1**
Sample Matrix			**US Leachate**	**US Leachate**
Eurofins Sample No.			**S22-Au0055161**	**S22-Au0055162**
Date Sampled			**Aug 10, 2022**	**Aug 11, 2022**
Test/Reference	LOR	Unit		
Heavy Metals				
Lead	0.01	mg/L	3.5	0.03
USA Leaching Procedure				
Leachate Fluid[C01]		comment	2.0	2.0
pH (initial)	0.1	pH Units	9.0	9.5
pH (off)	0.1	pH Units	4.6	5.4
pH (USA HCl addition)	0.1	pH Units	6.4	7.2

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
Heavy Metals	Sydney	Aug 24, 2022	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
USA Leaching Procedure	Sydney	Aug 24, 2022	14 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			

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email: EnviroSales@eurofins.com

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Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

Company Name:	JBS & G Australia (NSW) P/L	**Order No.:**		**Received:**	Aug 23, 2022 3:31 PM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	**Report #:**	917148	**Due:**	Aug 25, 2022
		Phone:	02 8245 0300	**Priority:**	2 Day
		Fax:		**Contact Name:**	Gina Pinget
Project Name:	ADDITIONAL - WENTWORTH HEALTH SERVICES REDEVELOPMENT				
Project ID:	ADDITIONAL - 63097				

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Lead	USA Leaching Procedure
Sydney Laboratory - NATA # 1261 Site # 18217						X	X
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	TP25-0-0.1	Aug 10, 2022		US Leachate	S22-Au0055161	X	X
2	HA49-0-0.1	Aug 11, 2022		US Leachate	S22-Au0055162	X	X
Test Counts						2	2

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
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

Terms

APHA	American Public Health Association
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 a moisture has been determined on a solid sample the result is expressed on a dry 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 is representative of 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 like compound to the analyte target and reported as percentage recovery.
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 5.4
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 be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

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

Results <10 times the LOR: No Limit

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

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

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

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

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

.

QC Data General Comments

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

Quality Control Results

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank									
Heavy Metals									
Lead			mg/L	< 0.01			0.01	Pass	
LCS - % Recovery									
Heavy Metals									
Lead			%	95			80-120	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Heavy Metals				Result 1					
Lead	S22-Au0055162	CP	%	93			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Lead	S22-Au0056385	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	

Comments

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other

Authorised by:

Andrew Black	Analytical Services Manager
Gabriele Cordero	Senior Analyst-Metal

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please click here.

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www.envirolab.com.au

CERTIFICATE OF ANALYSIS 303323

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	Gina Pinget
Address	Level 1, 50 Margaret St, Sydney, NSW, 2000

Sample Details

Your Reference	**63097, Wentworth Health Services Redevelopment**
Number of Samples	1 Water, 3 Soil
Date samples received	17/08/2022
Date completed instructions received	17/08/2022

Analysis Details

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

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

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

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

Report Details

Date results requested by	24/08/2022
Date of Issue	24/08/2022

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Asbestos Approved By
Analysed by Asbestos Approved Analyst: Lucy Zhu
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Giovanni Agosti, Group Technical Manager
Greta Petzold, Assistant Operation Manager
Hannah Nguyen, Metals Supervisor
Josh Williams, Organics and LC Supervisor
Kyle Gavrily, Senior Chemist
Lucy Zhu, Asbestos Supervisor
Phalak Inthakesone, Organics Development Manager, Sydney
Priya Samarawickrama, Senior Chemist

Authorised By

Nancy Zhang, Laboratory Manager

VOCs in soil		
Our Reference		303323-4
Your Reference	UNITS	QA202200811-01
Date Sampled		11/08/2022
Type of sample		Soil
Date extracted	-	19/08/2022
Date analysed	-	22/08/2022
Dichlorodifluoromethane	mg/kg	<1
Chloromethane	mg/kg	<1
Vinyl Chloride	mg/kg	<1
Bromomethane	mg/kg	<1
Chloroethane	mg/kg	<1
Trichlorofluoromethane	mg/kg	<1
1,1-Dichloroethene	mg/kg	<1
trans-1,2-dichloroethene	mg/kg	<1
1,1-dichloroethane	mg/kg	<1
cis-1,2-dichloroethene	mg/kg	<1
bromochloromethane	mg/kg	<1
chloroform	mg/kg	<1
2,2-dichloropropane	mg/kg	<1
1,2-dichloroethane	mg/kg	<1
1,1,1-trichloroethane	mg/kg	<1
1,1-dichloropropene	mg/kg	<1
Cyclohexane	mg/kg	<1
carbon tetrachloride	mg/kg	<1
Benzene	mg/kg	<0.2
dibromomethane	mg/kg	<1
1,2-dichloropropane	mg/kg	<1
trichloroethene	mg/kg	<1
bromodichloromethane	mg/kg	<1
trans-1,3-dichloropropene	mg/kg	<1
cis-1,3-dichloropropene	mg/kg	<1
1,1,2-trichloroethane	mg/kg	<1
Toluene	mg/kg	<0.5
1,3-dichloropropane	mg/kg	<1
dibromochloromethane	mg/kg	<1
1,2-dibromoethane	mg/kg	<1
tetrachloroethene	mg/kg	<1
1,1,1,2-tetrachloroethane	mg/kg	<1
chlorobenzene	mg/kg	<1
Ethylbenzene	mg/kg	<1

VOCs in soil		
Our Reference		303323-4
Your Reference	UNITS	QA202200811-01
Date Sampled		11/08/2022
Type of sample		Soil
bromoform	mg/kg	<1
m+p-xylene	mg/kg	<2
styrene	mg/kg	<1
1,1,2,2-tetrachloroethane	mg/kg	<1
o-Xylene	mg/kg	<1
1,2,3-trichloropropane	mg/kg	<1
isopropylbenzene	mg/kg	<1
bromobenzene	mg/kg	<1
n-propyl benzene	mg/kg	<1
2-chlorotoluene	mg/kg	<1
4-chlorotoluene	mg/kg	<1
1,3,5-trimethyl benzene	mg/kg	<1
tert-butyl benzene	mg/kg	<1
1,2,4-trimethyl benzene	mg/kg	<1
1,3-dichlorobenzene	mg/kg	<1
sec-butyl benzene	mg/kg	<1
1,4-dichlorobenzene	mg/kg	<1
4-isopropyl toluene	mg/kg	<1
1,2-dichlorobenzene	mg/kg	<1
n-butyl benzene	mg/kg	<1
1,2-dibromo-3-chloropropane	mg/kg	<1
1,2,4-trichlorobenzene	mg/kg	<1
hexachlorobutadiene	mg/kg	<1
1,2,3-trichlorobenzene	mg/kg	<1
Surrogate Dibromofluorometha	%	113
Surrogate aaa-Trifluorotoluene	%	87
Surrogate Toluene-d_8	%	105
Surrogate 4-Bromofluorobenzene	%	104

vTRH(C6-C10)/BTEXN in Soil		
Our Reference		303323-3
Your Reference	UNITS	QA202200810-01
Date Sampled		10/08/2022
Type of sample		Soil
Date extracted	-	19/08/2022
Date analysed	-	22/08/2022
TRH C_6 - C_9	mg/kg	<25
TRH C_6 - C_{10}	mg/kg	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
Naphthalene	mg/kg	<1
Total +ve Xylenes	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	98

svTRH (C10-C40) in Soil		
Our Reference		303323-3
Your Reference	UNITS	QA202200810-01
Date Sampled		10/08/2022
Type of sample		Soil
Date extracted	-	19/08/2022
Date analysed	-	20/08/2022
TRH C_{10} - C_{14}	mg/kg	<50
TRH C_{15} - C_{28}	mg/kg	450
TRH C_{29} - C_{36}	mg/kg	350
Total +ve TRH (C10-C36)	mg/kg	810
TRH >C_{10} -C_{16}	mg/kg	130
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	130
TRH >C_{16} -C_{34}	mg/kg	640
TRH >C_{34} -C_{40}	mg/kg	250
Total +ve TRH (>C10-C40)	mg/kg	1,000
Surrogate o-Terphenyl	%	128

PAHs in Soil			
Our Reference		303323-3	303323-4
Your Reference	UNITS	QA202200810-01	QA202200811-01
Date Sampled		10/08/2022	11/08/2022
Type of sample		Soil	Soil
Date extracted	-	19/08/2022	19/08/2022
Date analysed	-	19/08/2022	19/08/2022
Naphthalene	mg/kg	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	84	84

Organochlorine Pesticides in soil			
Our Reference		303323-2	303323-4
Your Reference	UNITS	QA202200809-01	QA202200811-01
Date Sampled		9/08/2022	11/08/2022
Type of sample		Soil	Soil
Date extracted	-	19/08/2022	19/08/2022
Date analysed	-	19/08/2022	19/08/2022
alpha-BHC	mg/kg	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1
Surrogate TCMX	%	82	81

PCBs in Soil			
Our Reference		303323-2	303323-4
Your Reference	UNITS	QA202200809-01	QA202200811-01
Date Sampled		9/08/2022	11/08/2022
Type of sample		Soil	Soil
Date extracted	-	19/08/2022	19/08/2022
Date analysed	-	19/08/2022	19/08/2022
Aroclor 1016	mg/kg	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1
Surrogate TCMX	%	82	81

Acid Extractable metals in soil			
Our Reference		303323-3	303323-4
Your Reference	UNITS	QA202200810-01	QA202200811-01
Date Sampled		10/08/2022	11/08/2022
Type of sample		Soil	Soil
Date prepared	-	24/08/2022	24/08/2022
Date analysed	-	24/08/2022	24/08/2022
Arsenic	mg/kg	<4	<4
Cadmium	mg/kg	<0.4	<0.4
Chromium	mg/kg	6	11
Copper	mg/kg	27	27
Lead	mg/kg	11	23
Mercury	mg/kg	0.1	0.3
Nickel	mg/kg	6	9
Zinc	mg/kg	49	100

Moisture				
Our Reference		303323-2	303323-3	303323-4
Your Reference	UNITS	QA202200809-01	QA202200810-01	QA202200811-01
Date Sampled		9/08/2022	10/08/2022	11/08/2022
Type of sample		Soil	Soil	Soil
Date prepared	-	19/08/2022	19/08/2022	19/08/2022
Date analysed	-	20/08/2022	20/08/2022	20/08/2022
Moisture	%	15	12	11

Asbestos ID - soils NEPM - ASB-001				
Our Reference		303323-2	303323-3	303323-4
Your Reference	UNITS	QA202200809-01	QA202200810-01	QA202200811-01
Date Sampled		9/08/2022	10/08/2022	11/08/2022
Type of sample		Soil	Soil	Soil
Date analysed	-	23/08/2022	23/08/2022	23/08/2022
Sample mass tested	g	696.55	840.12	609.74
Sample Description	-	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–
FA and AF Estimation*	g	–	–	–
ACM >7mm Estimation*	%(w/w)	<0.01	<0.01	<0.01
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001

Micro testing in soil		
Our Reference		303323-3
Your Reference	UNITS	QA202200810-01
Date Sampled		10/08/2022
Type of sample		Soil
Date of testing	-	18/08/2022
Faecal Coliforms in soil	MPN/100g	<180
E Coli in soil	MPN/100g	<180

VHC's in water		
Our Reference		303323-1
Your Reference	UNITS	QA-MW
Date Sampled		11/08/2022
Type of sample		Water
Date extracted	-	18/08/2022
Date analysed	-	19/08/2022
Dichlorodifluoromethane	µg/L	<10
Chloromethane	µg/L	<10
Vinyl Chloride	µg/L	<10
Bromomethane	µg/L	<10
Chloroethane	µg/L	<10
Trichlorofluoromethane	µg/L	<10
1,1-Dichloroethene	µg/L	<1
Trans-1,2-dichloroethene	µg/L	<1
1,1-dichloroethane	µg/L	<1
Cis-1,2-dichloroethene	µg/L	<1
Bromochloromethane	µg/L	<1
Chloroform	µg/L	<1
2,2-dichloropropane	µg/L	<1
1,2-dichloroethane	µg/L	<1
1,1,1-trichloroethane	µg/L	<1
1,1-dichloropropene	µg/L	<1
Carbon tetrachloride	µg/L	<1
Dibromomethane	µg/L	<1
1,2-dichloropropane	µg/L	<1
Trichloroethene	µg/L	<1
Bromodichloromethane	µg/L	<1
trans-1,3-dichloropropene	µg/L	<1
cis-1,3-dichloropropene	µg/L	<1
1,1,2-trichloroethane	µg/L	<1
1,3-dichloropropane	µg/L	<1
Dibromochloromethane	µg/L	<1
1,2-dibromoethane	µg/L	<1
Tetrachloroethene	µg/L	<1
1,1,1,2-tetrachloroethane	µg/L	<1
Chlorobenzene	µg/L	<1
Bromoform	µg/L	<1
1,1,2,2-tetrachloroethane	µg/L	<1
1,2,3-trichloropropane	µg/L	<1
Bromobenzene	µg/L	<1

VHC's in water		
Our Reference		303323-1
Your Reference	UNITS	QA-MW
Date Sampled		11/08/2022
Type of sample		Water
2-chlorotoluene	µg/L	<1
4-chlorotoluene	µg/L	<1
1,3-dichlorobenzene	µg/L	<1
1,4-dichlorobenzene	µg/L	<1
1,2-dichlorobenzene	µg/L	<1
1,2-dibromo-3-chloropropane	µg/L	<1
1,2,4-trichlorobenzene	µg/L	<1
Hexachlorobutadiene	µg/L	<1
1,2,3-trichlorobenzene	µg/L	<1
Surrogate Dibromofluoromethane	%	99
Surrogate toluene-d8	%	92
Surrogate 4-BFB	%	104

vTRH(C6-C10)/BTEXN in Water		
Our Reference		303323-1
Your Reference	UNITS	QA-MW
Date Sampled		11/08/2022
Type of sample		Water
Date extracted	-	18/08/2022
Date analysed	-	19/08/2022
TRH C_6 - C_9	µg/L	<10
TRH C_6 - C_{10}	µg/L	<10
TRH C_6 - C_{10} less BTEX (F1)	µg/L	<10
Benzene	µg/L	<1
Toluene	µg/L	<1
Ethylbenzene	µg/L	<1
m+p-xylene	µg/L	<2
o-xylene	µg/L	<1
Naphthalene	µg/L	<1
Surrogate Dibromofluoromethane	%	99
Surrogate toluene-d8	%	92
Surrogate 4-BFB	%	104

svTRH (C10-C40) in Water		
Our Reference		303323-1
Your Reference	UNITS	QA-MW
Date Sampled		11/08/2022
Type of sample		Water
Date extracted	-	19/08/2022
Date analysed	-	20/08/2022
TRH C_{10} - C_{14}	µg/L	<50
TRH C_{15} - C_{28}	µg/L	<100
TRH C_{29} - C_{36}	µg/L	<100
Total +ve TRH (C10-C36)	µg/L	<50
TRH >C_{10} - C_{16}	µg/L	71
TRH >C_{10} - C_{16} less Naphthalene (F2)	µg/L	71
TRH >C_{16} - C_{34}	µg/L	<100
TRH >C_{34} - C_{40}	µg/L	<100
Total +ve TRH (>C10-C40)	µg/L	70
Surrogate o-Terphenyl	%	82

PAHs in Water		
Our Reference		303323-1
Your Reference	UNITS	QA-MW
Date Sampled		11/08/2022
Type of sample		Water
Date extracted	-	19/08/2022
Date analysed	-	22/08/2022
Naphthalene	µg/L	<1
Acenaphthylene	µg/L	<1
Acenaphthene	µg/L	<1
Fluorene	µg/L	<1
Phenanthrene	µg/L	<1
Anthracene	µg/L	<1
Fluoranthene	µg/L	<1
Pyrene	µg/L	<1
Benzo(a)anthracene	µg/L	<1
Chrysene	µg/L	<1
Benzo(b,j+k)fluoranthene	µg/L	<2
Benzo(a)pyrene	µg/L	<1
Indeno(1,2,3-c,d)pyrene	µg/L	<1
Dibenzo(a,h)anthracene	µg/L	<1
Benzo(g,h,i)perylene	µg/L	<1
Benzo(a)pyrene TEQ	µg/L	<5
Total +ve PAH's	µg/L	NIL (+)VE
Surrogate p-Terphenyl-d14	%	75

HM in water - dissolved		
Our Reference		303323-1
Your Reference	UNITS	QA-MW
Date Sampled		11/08/2022
Type of sample		Water
Date prepared	-	19/08/2022
Date analysed	-	19/08/2022
Arsenic-Dissolved	µg/L	25
Cadmium-Dissolved	µg/L	<0.1
Chromium-Dissolved	µg/L	2
Copper-Dissolved	µg/L	6
Lead-Dissolved	µg/L	<1
Mercury-Dissolved	µg/L	<0.05
Nickel-Dissolved	µg/L	1
Zinc-Dissolved	µg/L	8

Miscellaneous Inorganics		
Our Reference		303323-1
Your Reference	UNITS	QA-MW
Date Sampled		11/08/2022
Type of sample		Water
Date prepared	-	17/08/2022
Date analysed	-	17/08/2022
pH	pH Units	8.2
Electrical Conductivity	µS/cm	4,800
Total Dissolved Solids (grav)	mg/L	3,200

Cations in water Dissolved		
Our Reference		303323-1
Your Reference	UNITS	QA-MW
Date Sampled		11/08/2022
Type of sample		Water
Date digested	-	22/08/2022
Date analysed	-	22/08/2022
Calcium - Dissolved	mg/L	12
Magnesium - Dissolved	mg/L	14
Hardness	mgCaCO 3 /L	86

PFAS in Waters Extended		
Our Reference		303323-1
Your Reference	UNITS	QA-MW
Date Sampled		11/08/2022
Type of sample		Water
Date prepared	-	18/08/2022
Date analysed	-	18/08/2022
Perfluorobutanesulfonic acid	µg/L	<0.01
Perfluoropentanesulfonic acid	µg/L	<0.01
Perfluorohexanesulfonic acid - PFHxS	µg/L	<0.01
Perfluoroheptanesulfonic acid	µg/L	<0.01
Perfluorooctanesulfonic acid PFOS	µg/L	<0.01
Perfluorodecanesulfonic acid	µg/L	<0.02
Perfluorobutanoic acid	µg/L	<0.02
Perfluoropentanoic acid	µg/L	<0.02
Perfluorohexanoic acid	µg/L	<0.01
Perfluoroheptanoic acid	µg/L	<0.01
Perfluorooctanoic acid PFOA	µg/L	<0.01
Perfluorononanoic acid	µg/L	<0.01
Perfluorodecanoic acid	µg/L	<0.02
Perfluoroundecanoic acid	µg/L	<0.02
Perfluorododecanoic acid	µg/L	<0.05
Perfluorotridecanoic acid	µg/L	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5
4:2 FTS	µg/L	<0.01
6:2 FTS	µg/L	<0.01
8:2 FTS	µg/L	<0.02
10:2 FTS	µg/L	<0.02
Perfluorooctane sulfonamide	µg/L	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05
N-Ethyl perfluorooctanesulfon amide	µg/L	<0.1
N-Me perfluorooctanesulfonamid oethanol	µg/L	<0.05
N-Et perfluorooctanesulfonamid oethanol	µg/L	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.02
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.02
Surrogate $^{13}C_8$ *PFOS*	%	93
Surrogate $^{13}C_2$ *PFOA*	%	108
Extracted ISTD $^{13}C_3$ *PFBS*	%	99
Extracted ISTD $^{18}O_2$ *PFHxS*	%	87
Extracted ISTD $^{13}C_4$ *PFOS*	%	105
Extracted ISTD $^{13}C_4$ *PFBA*	%	117

PFAS in Waters Extended		
Our Reference		303323-1
Your Reference	UNITS	QA-MW
Date Sampled		11/08/2022
Type of sample		Water
Extracted ISTD $^{13}C_3$ *PFPeA*	%	90
Extracted ISTD $^{13}C_2$ *PFHxA*	%	99
Extracted ISTD $^{13}C_4$ *PFHpA*	%	94
Extracted ISTD $^{13}C_4$ *PFOA*	%	109
Extracted ISTD $^{13}C_5$ *PFNA*	%	108
Extracted ISTD $^{13}C_2$ *PFDA*	%	112
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	121
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	128
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	109
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	61
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	70
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	91
Extracted ISTD $^{13}C_8$ *FOSA*	%	122
Extracted ISTD d_3 *N MeFOSA*	%	110
Extracted ISTD d_5 *N EtFOSA*	%	125
Extracted ISTD d_7 *N MeFOSE*	%	116
Extracted ISTD d_9 *N EtFOSE*	%	109
Extracted ISTD d_3 *N MeFOSAA*	%	148
Extracted ISTD d_5 *N EtFOSAA*	%	142
Total Positive PFHxS & PFOS	µg/L	<0.01
Total Positive PFOA & PFOS	µg/L	<0.01
Total Positive PFAS	µg/L	<0.01

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
ASB-001	Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg (0.01% w/w) as per Australian Standard AS4964-2004. Results reported denoted with * are outside our scope of NATA accreditation. **NOTE** #1 Total Asbestos g/kg was analysed and reported as per Australian Standard AS4964 (This is the sum of ACM >7mm, <7mm and FA/AF) **NOTE** #2 The screening level of 0.001% w/w asbestos in soil for FA and AF only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres. Estimation = Estimated asbestos weight Results reported with "--" is equivalent to no visible asbestos identified using Polarised Light microscopy and Dispersion Staining Techniques.
Ext-008	Subcontracted to Sonic Food & Water Testing. NATA Accreditation No. 4034.
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell at 25°C in accordance with APHA latest edition 2510 and Rayment & Lyons.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Inorg-018	Total Dissolved Solids - determined gravimetrically. The solids are dried at 180+/-10°C.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.

Method ID	Methodology Summary
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. ‘EQ PQL’values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. ‘EQ zero’values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. ‘EQ half PQL’values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

Method ID	Methodology Summary
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.3 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

QUALITY CONTROL: VOCs in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	[NT]
Date extracted	-			19/08/2022	[NT]	[NT]	[NT]	[NT]	19/08/2022	[NT]
Date analysed	-			22/08/2022	[NT]	[NT]	[NT]	[NT]	22/08/2022	[NT]
Dichlorodifluoromethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloromethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Vinyl Chloride	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromomethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichlorofluoromethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-Dichloroethene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
trans-1,2-dichloroethene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-dichloroethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	109	[NT]
cis-1,2-dichloroethene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
bromochloromethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
chloroform	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
2,2-dichloropropane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloroethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
1,1,1-trichloroethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
1,1-dichloropropene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Cyclohexane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
carbon tetrachloride	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
dibromomethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloropropane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
trichloroethene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	87	[NT]
bromodichloromethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	96	[NT]
trans-1,3-dichloropropene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
cis-1,3-dichloropropene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2-trichloroethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichloropropane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
dibromochloromethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	91	[NT]
1,2-dibromoethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
tetrachloroethene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
1,1,1,2-tetrachloroethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
chlorobenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
bromoform	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
styrene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2,2-tetrachloroethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]

QUALITY CONTROL: VOCs in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichloropropane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
isopropylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
bromobenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-propyl benzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2-chlorotoluene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-chlorotoluene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3,5-trimethyl benzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
tert-butyl benzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trimethyl benzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichlorobenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
sec-butyl benzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,4-dichlorobenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-isopropyl toluene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichlorobenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-butyl benzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dibromo-3-chloropropane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trichlorobenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
hexachlorobutadiene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichlorobenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluorometha	%		Org-023	113	[NT]	[NT]	[NT]	[NT]	105	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	104	[NT]	[NT]	[NT]	[NT]	94	[NT]
Surrogate Toluene-d_8	%		Org-023	107	[NT]	[NT]	[NT]	[NT]	102	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	103	[NT]	[NT]	[NT]	[NT]	100	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	[NT]
Date extracted	-			19/08/2022	[NT]	[NT]	[NT]	[NT]	19/08/2022	[NT]
Date analysed	-			22/08/2022	[NT]	[NT]	[NT]	[NT]	22/08/2022	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	97	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	97	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	99	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	99	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	91	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	99	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	104	[NT]	[NT]	[NT]	[NT]	94	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	[NT]
Date extracted	-			19/08/2022	[NT]	[NT]	[NT]	[NT]	19/08/2022	[NT]
Date analysed	-			20/08/2022	[NT]	[NT]	[NT]	[NT]	20/08/2022	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	125	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	115	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	125	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	115	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate o-Terphenyl	%		Org-020	84	[NT]	[NT]	[NT]	[NT]	90	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	[NT]
Date extracted	-			19/08/2022	[NT]	[NT]	[NT]	[NT]	19/08/2022	[NT]
Date analysed	-			19/08/2022	[NT]	[NT]	[NT]	[NT]	19/08/2022	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	88	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	89	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	103	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	85	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	94	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	83	[NT]	[NT]	[NT]	[NT]	77	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	[NT]
Date extracted	-			19/08/2022	[NT]	[NT]	[NT]	[NT]	19/08/2022	[NT]
Date analysed	-			19/08/2022	[NT]	[NT]	[NT]	[NT]	19/08/2022	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	90	[NT]
HCB	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	89	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	75	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	89	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	90	[NT]
Endrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	84	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	74	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	82	[NT]	[NT]	[NT]	[NT]	79	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	[NT]
Date extracted	-			19/08/2022	[NT]	[NT]	[NT]	[NT]	19/08/2022	[NT]
Date analysed	-			19/08/2022	[NT]	[NT]	[NT]	[NT]	19/08/2022	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	122	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-021	82	[NT]	[NT]	[NT]	[NT]	79	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			24/08/2022	[NT]	[NT]	[NT]	[NT]	24/08/2022	[NT]
Date analysed	-			24/08/2022	[NT]	[NT]	[NT]	[NT]	24/08/2022	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	92	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	93	[NT]
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	107	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	96	[NT]

QUALITY CONTROL: VHC's in water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			18/08/2022	[NT]	[NT]	[NT]	[NT]	18/08/2022	[NT]
Date analysed	-			19/08/2022	[NT]	[NT]	[NT]	[NT]	19/08/2022	[NT]
Dichlorodifluoromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Vinyl Chloride	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromomethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichlorofluoromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-Dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trans-1,2-dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-dichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
Cis-1,2-dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromochloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroform	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	119	[NT]
2,2-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	115	[NT]
1,1,1-trichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	116	[NT]
1,1-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Carbon tetrachloride	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibromomethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	119	[NT]
Bromodichloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	119	[NT]
trans-1,3-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
cis-1,3-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2-trichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibromochloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	116	[NT]
1,2-dibromoethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tetrachloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	113	[NT]
1,1,1,2-tetrachloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromoform	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2,2-tetrachloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2-chlorotoluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-chlorotoluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,4-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]

QUALITY CONTROL: VHC's in water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
1,2-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dibromo-3-chloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Hexachlorobutadiene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	93	[NT]	[NT]	[NT]	[NT]	99	[NT]
Surrogate toluene-d8	%		Org-023	92	[NT]	[NT]	[NT]	[NT]	98	[NT]
Surrogate 4-BFB	%		Org-023	103	[NT]	[NT]	[NT]	[NT]	104	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			19/08/22	[NT]	[NT]	[NT]	[NT]	18/08/2022	[NT]
Date analysed	-			22/08/2022	[NT]	[NT]	[NT]	[NT]	19/08/2022	[NT]
TRH C_6 - C_9	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	115	[NT]
TRH C_6 - C_{10}	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	115	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	115	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	116	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	117	[NT]
Naphthalene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	93	[NT]	[NT]	[NT]	[NT]	99	[NT]
Surrogate toluene-d8	%		Org-023	92	[NT]	[NT]	[NT]	[NT]	98	[NT]
Surrogate 4-BFB	%		Org-023	103	[NT]	[NT]	[NT]	[NT]	104	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			19/08/2022	[NT]	[NT]	[NT]	[NT]	19/08/2022	[NT]
Date analysed	-			20/08/2022	[NT]	[NT]	[NT]	[NT]	20/08/2022	[NT]
TRH C_{10} - C_{14}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	113	[NT]
TRH C_{15} - C_{28}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	127	[NT]
TRH C_{29} - C_{36}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	86	[NT]
TRH >C_{10} - C_{16}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	113	[NT]
TRH >C_{16} - C_{34}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	127	[NT]
TRH >C_{34} - C_{40}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	86	[NT]
Surrogate o-Terphenyl	%		Org-020	85	[NT]	[NT]	[NT]	[NT]	85	[NT]

QUALITY CONTROL: PAHs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			19/08/2022	[NT]	[NT]	[NT]	[NT]	19/08/2022	[NT]
Date analysed	-			22/08/2022	[NT]	[NT]	[NT]	[NT]	22/08/2022	[NT]
Naphthalene	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	69	[NT]
Acenaphthylene	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	75	[NT]
Fluorene	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	76	[NT]
Phenanthrene	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	82	[NT]
Anthracene	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	71	[NT]
Pyrene	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	81	[NT]
Benzo(a)anthracene	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	73	[NT]
Benzo(b,j+k)fluoranthene	µg/L	2	Org-022/025	<2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	88	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	75	[NT]	[NT]	[NT]	[NT]	82	[NT]

QUALITY CONTROL: HM in water - dissolved					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			19/08/2022	[NT]	[NT]	[NT]	[NT]	19/08/2022	[NT]
Date analysed	-			19/08/2022	[NT]	[NT]	[NT]	[NT]	19/08/2022	[NT]
Arsenic-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Chromium-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Copper-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	105	[NT]
Lead-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	107	[NT]
Mercury-Dissolved	µg/L	0.05	Metals-021	<0.05	[NT]	[NT]	[NT]	[NT]	95	[NT]
Nickel-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	106	[NT]
Zinc-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	104	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			17/08/2022	[NT]	[NT]	[NT]	[NT]	17/08/2022	[NT]
Date analysed	-			17/08/2022	[NT]	[NT]	[NT]	[NT]	17/08/2022	[NT]
pH	pH Units		Inorg-001	[NT]	[NT]	[NT]	[NT]	[NT]	101	[NT]
Electrical Conductivity	µS/cm	1	Inorg-002	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Total Dissolved Solids (grav)	mg/L	5	Inorg-018	<5	[NT]	[NT]	[NT]	[NT]	98	[NT]

QUALITY CONTROL: Cations in water Dissolved						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date digested	-			22/08/2022	[NT]	[NT]	[NT]	[NT]	22/08/2022	[NT]
Date analysed	-			22/08/2022	[NT]	[NT]	[NT]	[NT]	22/08/2022	[NT]
Calcium - Dissolved	mg/L	0.5	Metals-020	<0.5	[NT]	[NT]	[NT]	[NT]	97	[NT]
Magnesium - Dissolved	mg/L	0.5	Metals-020	<0.5	[NT]	[NT]	[NT]	[NT]	97	[NT]

QUALITY CONTROL: PFAS in Waters Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			18/08/2022	[NT]	[NT]	[NT]	[NT]	18/08/2022	[NT]
Date analysed	-			18/08/2022	[NT]	[NT]	[NT]	[NT]	18/08/2022	[NT]
Perfluorobutanesulfonic acid	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	93	[NT]
Perfluoropentanesulfonic acid	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	112	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	99	[NT]
Perfluoroheptanesulfonic acid	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	119	[NT]
Perfluorooctanesulfonic acid PFOS	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	91	[NT]
Perfluorodecanesulfonic acid	µg/L	0.02	Org-029	<0.02	[NT]	[NT]	[NT]	[NT]	85	[NT]
Perfluorobutanoic acid	µg/L	0.02	Org-029	<0.02	[NT]	[NT]	[NT]	[NT]	99	[NT]
Perfluoropentanoic acid	µg/L	0.02	Org-029	<0.02	[NT]	[NT]	[NT]	[NT]	96	[NT]
Perfluorohexanoic acid	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	93	[NT]
Perfluoroheptanoic acid	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	99	[NT]
Perfluorooctanoic acid PFOA	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	94	[NT]
Perfluorononanoic acid	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	95	[NT]
Perfluorodecanoic acid	µg/L	0.02	Org-029	<0.02	[NT]	[NT]	[NT]	[NT]	97	[NT]
Perfluoroundecanoic acid	µg/L	0.02	Org-029	<0.02	[NT]	[NT]	[NT]	[NT]	102	[NT]
Perfluorododecanoic acid	µg/L	0.05	Org-029	<0.05	[NT]	[NT]	[NT]	[NT]	102	[NT]
Perfluorotridecanoic acid	µg/L	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Perfluorotetradecanoic acid	µg/L	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	98	[NT]
4:2 FTS	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	101	[NT]
6:2 FTS	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	98	[NT]
8:2 FTS	µg/L	0.02	Org-029	<0.02	[NT]	[NT]	[NT]	[NT]	107	[NT]
10:2 FTS	µg/L	0.02	Org-029	<0.02	[NT]	[NT]	[NT]	[NT]	98	[NT]
Perfluorooctane sulfonamide	µg/L	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	102	[NT]
N-Methyl perfluorooctane sulfonamide	µg/L	0.05	Org-029	<0.05	[NT]	[NT]	[NT]	[NT]	106	[NT]
N-Ethyl perfluorooctanesulfon amide	µg/L	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	91	[NT]
N-Me perfluorooctanesulfonamid oethanol	µg/L	0.05	Org-029	<0.05	[NT]	[NT]	[NT]	[NT]	107	[NT]
N-Et perfluorooctanesulfonamid oethanol	µg/L	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	105	[NT]
MePerfluorooctanesulf- amid oacetic acid	µg/L	0.02	Org-029	<0.02	[NT]	[NT]	[NT]	[NT]	107	[NT]
EtPerfluorooctanesulf- amid oacetic acid	µg/L	0.02	Org-029	<0.02	[NT]	[NT]	[NT]	[NT]	98	[NT]
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	98	[NT]	[NT]	[NT]	[NT]	95	[NT]
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	108	[NT]	[NT]	[NT]	[NT]	103	[NT]

QUALITY CONTROL: PFAS in Waters Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Extracted ISTD $^{13}C_3$ *PFBS*	%		Org-029	95	[NT]	[NT]	[NT]	[NT]	95	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	86	[NT]	[NT]	[NT]	[NT]	82	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	101	[NT]	[NT]	[NT]	[NT]	103	[NT]
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-029	122	[NT]	[NT]	[NT]	[NT]	118	[NT]
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-029	92	[NT]	[NT]	[NT]	[NT]	89	[NT]
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-029	99	[NT]	[NT]	[NT]	[NT]	97	[NT]
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-029	93	[NT]	[NT]	[NT]	[NT]	90	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	100	[NT]	[NT]	[NT]	[NT]	97	[NT]
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-029	99	[NT]	[NT]	[NT]	[NT]	95	[NT]
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-029	110	[NT]	[NT]	[NT]	[NT]	101	[NT]
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-029	111	[NT]	[NT]	[NT]	[NT]	97	[NT]
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-029	119	[NT]	[NT]	[NT]	[NT]	108	[NT]
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-029	91	[NT]	[NT]	[NT]	[NT]	85	[NT]
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-029	83	[NT]	[NT]	[NT]	[NT]	84	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	94	[NT]	[NT]	[NT]	[NT]	90	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	101	[NT]	[NT]	[NT]	[NT]	96	[NT]
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-029	110	[NT]	[NT]	[NT]	[NT]	102	[NT]
Extracted ISTD d_3 *N MeFOSA*	%		Org-029	105	[NT]	[NT]	[NT]	[NT]	96	[NT]
Extracted ISTD d_5 *N EtFOSA*	%		Org-029	114	[NT]	[NT]	[NT]	[NT]	112	[NT]
Extracted ISTD d_7 *N MeFOSE*	%		Org-029	101	[NT]	[NT]	[NT]	[NT]	98	[NT]

QUALITY CONTROL: PFAS in Waters Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Extracted ISTD d_9 *N EtFOSE*	%		Org-029	104	[NT]	[NT]	[NT]	[NT]	98	[NT]
Extracted ISTD d_3 *N MeFOSAA*	%		Org-029	126	[NT]	[NT]	[NT]	[NT]	114	[NT]
Extracted ISTD d_5 *N EtFOSAA*	%		Org-029	127	[NT]	[NT]	[NT]	[NT]	110	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

pH
Samples were out of the recommended holding time for this analysis.

Microbiology analysed by Sonic Food & Water Testing. Report No. W2219136
The time between collection and the commencement of testing should not exceed 24 hours. Samples tested outside this time may have their results compromised

Asbestos-ID in soil: NEPM
This report is consistent with the reporting recommendations in the National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013. This is reported outside our scope of NATA accreditation.

COC 16/8 13:49

CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing ABN 50 005 085 521

☐ Sydney Laboratory
179 Magowar Road Glenwood NSW 2768
02 9900 8400 EnviroSample@NSW@eurofins.com

☐ Brisbane Laboratory
Unit 1/21 Smallwood Place Murarrie QLD 4172
07 3902 4600 EnviroSample@QLD@eurofins.com

☐ Perth Laboratory
46-48 Davison Road Welshpool WA 6106
08 6253 4444 Samples@ARLgroup.com.au

☐ Melbourne Laboratory
6 Monterey Road Dandenong South VIC 3175
03 8564 5000 EnviroSample@eurofins.com

Company	JBS & G Australia (NSW) P/L	Project №	63097	Project Manager	Gina Pinget
Address	Level 1, 50 Margaret Street, Sydney NSW 2000	Project Name	Wentworth Health Services Redevelopment	EDD Format (Excel EDS/EIM)	
Contact Name	Gina Pinget			Facility Code	
Phone №	0425 853 573				
Special Directions	Please refridgerate immediately				
Purchase Order					
Quote ID №					

Sampler(s)	Gina Pinget
Handed over by	Gina Pinget
Email for Invoice	adminnsw@jbsg.com.au
Email for Results	gpinget@jbsg.com.au

Analyses: Unless specified otherwise, please apply "Total" analysis to soil, and to water unfiltered samples

Containers: (Please complete type & size of container)

Required Turnaround Time (TAT): Default will be 5 days if not stated. *Surcharge will apply
☐ Overnight (reporting by 9am)*
☐ Same day* ☐ 1 day*
☐ 2 days* ☐ 3 days*
☑ 5 days (Standard)
☐ Other( )

№	Client Sample ID	Sampled Date/Time	Matrix (Soil/Water/Air)	TCE/PCE	pH, Electrical Conductivity, TDS, Hardness	NEPM Screen for Soil Classification	B7 - Eurofins Suite B7 (TRH, PAH, BTEX, M8)	M8 - Metals M8 (As, Cd, Cr, Cu, Pb, Hg, Ni, Zn)	TRH - Total Recoverable Hydrocarbons	PAH - Polycyclic Aromatic Hydrocarbons	OCP - Organochlorine Pesticides	PCB - Polychlorinated Biphenyls	VOC - Volatile Organics	BTEX	Asbestos - Presence/Absence	Asbestos - WA guidelines	PFASfull - Per- and Polyfluoroalkyl Substances (PFASs)	BTEX - Trip Spike	E.Coli and Faecal Coliforms	Biological Jar	Green Inorganic bottle	500mL Amber Glass	200mL Amber Glass	40mL VOA vial	500mL PFAS Bottle	Jar (Glass or HDPE)	Other (Asbestos AS4964, WA Guidelines)	Metals (filtered)	Sample Comments / Dangerous Goods Hazard Warning
5	1 QA-MW	11/08/22	Water	X	X		X						X				X				1	1	1	4	1			1	
12	2 QA20220809-01	9/08/22	Soil								X	X				X										1	1		
13	3 QA20220810-01	10/08/22	Soil				X									X			X	1						1	1		
14	4 QA20220811-01	11/08/22	Soil					X		X	X	X	X			X										1	1		
	Add Rows		Total Counts	1	1		2	1		1	2	2	2			3	1		1	1	1	1	1	4	1	3	3	1	

Method of Shipment	☑ Courier (#)	☐ Hand Delivered	☑ Postal	Name	Gina Pinget	Signature	Gpinget	Date	16/08/2022
								Time	2:00:00 PM

Laboratory Use Only	Received By		SYD | BNE | MEL | PER | ADL | NTL | DRW	Signature		Date		Time		Temperature	
	Received By	umurenke	SYD | BNE | MEL | PER | ADL | NTL | DRW	Signature	UM	Date	17/8/22	Time	1000	Report №	

Submission of samples to this laboratory will be deemed as acceptance of Eurofins | Trg Standard Terms and Conditions unless agreed otherwise. A copy of Eurofins | trg Standard Terms and Conditions is available on request

Eurofins Environment Testing Australia Pty Ltd

ENVIROLAB GROUP
Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 303323 ~~303322~~

Date Received: 17/8/22
Time Received: 1000
Received By: UM
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	Gina Pinget

Sample Login Details

Your reference	63097, Wentworth Health Services Redevelopment
Envirolab Reference	303323
Date Sample Received	17/08/2022
Date Instructions Received	17/08/2022
Date Results Expected to be Reported	24/08/2022

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	1 Water, 3 Soil
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	14
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

Sample ID	VOCs in soil	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	PCBs in Soil	Acid Extractable metalsin soil	Asbestos ID - soils NEPM - ASB-001	Micro testing in soil	VHC's in water	vTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	PAHsin Water	HM in water - dissolved	pH	Electrical Conductivity	Total Dissolved Solids(grav)	Cations in water Dissolved	PFAS in Waters Extended
QA-MW										✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
QA202200809-01					✓	✓		✓											
QA202200810-01		✓	✓	✓			✓	✓	✓										
QA202200811-01	✓			✓	✓	✓	✓	✓											

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

Appendix H Statistical Analyses

Field ID	F2 (C10-C16 less Naphthalene)
SS01-0-0.1	<50
TP01-0-0.1	<50
TP03-0-0.1	<50
TP05-0-0.1	<50
TP07-0-0.1	<50
TP11-0-0.1	<50
TP13-0-0.1	56
TP16-0-0.1	<50
TP18-0-0.1	<50
TP20-0-0.1	<50
TP23-0-0.1	<50
TP24-0-0.1 (Primary)	65
QA202200810-01 (Triplicate)	130
QC20220810-01 (Duplicate)	120
TP25-0.2-0.25	<50
TP28-0-0.1	<50
TP32-0-0.1	<50
TP34-0-0.1	<50
TP37-0-0.1	<50
TP40-0-0.1	<50
TP42-0-0.1	<50
HA48-0-0.1	<50

UCL Statistics for Uncensored Full Data Sets

User Selected Options	
Date/Time of Computation	ProUCL 5.12/09/2022 11:54:14 AM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

F2 (C10-C16 less Naphthalene)

General Statistics			
Total Number of Observations	22	Number of Distinct Observations	5
		Number of Missing Observations	0
Minimum	50	Mean	57.77
Maximum	130	Median	50
SD	22.07	Std. Error of Mean	4.706
Coefficient of Variation	0.382	Skewness	2.969
Normal GOF Test			
Shapiro Wilk Test Statistic	0.4	Shapiro Wilk GOF Test	
5% Shapiro Wilk Critical Value	0.911	Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.456	Lilliefors GOF Test	
5% Lilliefors Critical Value	0.184	Data Not Normal at 5% Significance Level	
Data Not Normal at 5% Significance Level			
Assuming Normal Distribution			
95% Normal UCL		95% UCLs (Adjusted for Skewness)	
95% Student's-t UCL	65.87	95% Adjusted-CLT UCL (Chen-1995)	68.7
		95% Modified-t UCL (Johnson-1978)	66.37
Gamma GOF Test			
A-D Test Statistic	6.12	Anderson-Darling Gamma GOF Test	
5% A-D Critical Value	0.743	Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.466	Kolmogorov-Smirnov Gamma GOF Test	
5% K-S Critical Value	0.185	Data Not Gamma Distributed at 5% Significance Level	
Data Not Gamma Distributed at 5% Significance Level			
Gamma Statistics			
k hat (MLE)	11.48	k star (bias corrected MLE)	9.944
Theta hat (MLE)	5.033	Theta star (bias corrected MLE)	5.81
nu hat (MLE)	505.1	nu star (bias corrected)	437.5
MLE Mean (bias corrected)	57.77	MLE Sd (bias corrected)	18.32
		Approximate Chi Square Value (0.05)	390
Adjusted Level of Significance	0.0386	Adjusted Chi Square Value	386.7
Assuming Gamma Distribution			
95% Approximate Gamma UCL (use when n>=50))	64.81	95% Adjusted Gamma UCL (use when n<50)	65.37
Lognormal GOF Test			
Shapiro Wilk Test Statistic	0.422	Shapiro Wilk Lognormal GOF Test	
5% Shapiro Wilk Critical Value	0.911	Data Not Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.463	Lilliefors Lognormal GOF Test	
5% Lilliefors Critical Value	0.184	Data Not Lognormal at 5% Significance Level	
Data Not Lognormal at 5% Significance Level			
Lognormal Statistics			
Minimum of Logged Data	3.912	Mean of logged Data	4.012
Maximum of Logged Data	4.868	SD of logged Data	0.271
Assuming Lognormal Distribution			
95% H-UCL	63.84	90% Chebyshev (MVUE) UCL	67.27
95% Chebyshev (MVUE) UCL	71.82	97.5% Chebyshev (MVUE) UCL	78.12
99% Chebyshev (MVUE) UCL	90.51		
Nonparametric Distribution Free UCL Statistics			
Data do not follow a Discernible Distribution (0.05)			
Nonparametric Distribution Free UCLs			
95% CLT UCL	65.51	95% Jackknife UCL	65.87
95% Standard Bootstrap UCL	65.47	95% Bootstrap-t UCL	102.2
95% Hall's Bootstrap UCL	111.9	95% Percentile Bootstrap UCL	65.91
95% BCA Bootstrap UCL	68.73		
90% Chebyshev(Mean, Sd) UCL	71.89	95% Chebyshev(Mean, Sd) UCL	78.29
97.5% Chebyshev(Mean, Sd) UCL	87.16	99% Chebyshev(Mean, Sd) UCL	104.6
Suggested UCL to Use			
95% Student's-t UCL	**65.87**	or 95% Modified-t UCL	**66.37**

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

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