Health Infrastructure NSW

Integrated Mental Health Complex (IMHC), Corner of Dragonfly Drive and Redbank Road, Westmead NSW
Early Works REF & SSD-44034342

Remedial Action Plan

20 September 2022
60807/139612 (Rev 5)
JBS&G Australia Pty Ltd

www.jbsg.com.au

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Abbreviations

Term	Definition
ACM	Asbestos Containing Materials
AEC	Areas of Environmental Concern
AF	Asbestos Fines
AQA	Asbestos Quantification Assessment
ASS	Acid Sulfate Soils
bgs	Below ground surface
BIRS	Brain Injury Rehabilitation Services
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
CLM Act	Contaminated Land Management Act
COC	Chain of Custody
COPC	Contaminants of Potential Concern
CSM	Conceptual Site Model
CHW	Children's Hospital at Westmead
DBYD	Dial Before You Dig
DGA	Data Gap Assessment
DP	Deposited Plan
DQI	Data Quality Indicators
DQO	Data Quality Objectives
EIL	Ecological Investigation Levels
EPA	NSW Environment Protection Authority
ESLs	Ecological Screening Levels
FA	Fibrous Asbestos
HI	Health Infrastructure
HILs	Health Investigation Levels
HSLs	Health Screening Levels
IMHC	Integrated Mental Health Complex
IPO	Integrated Project Office
JBS&G	JBS&G Australia Pty Ltd
LEP	Local Environmental Plan
LOR	Limit of Reporting
LTAMP	Long Term Asbestos Management Plan
NATA	National Accreditation Testing Authority
NEPC	National Environment Protection Council
OCP	Organochlorine Pesticides
PAH	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyls
PID	Photo-ionisation Detector
POEO Act	Protection of the Environment Operations Act
QA/QC	Quality Assurance/Quality Control
RAP	Remedial Action Plan
RPD	Relative Percentage Difference
SAQP	Sampling Analytical and Quality Plan
Resilience and Hazards SEPP	*State Environmental Planning Policy (Resilience and Hazards) 2021* – Chapter 4 Remediation of Land
TRH	Total Recoverable Hydrocarbons
WSLHD	Western Sydney Local Health District
VOC	Volatile Organic Compounds

1. Introduction

1.1 Background

JBS&G Australia Pty Ltd (JBS&G) was engaged by Health Infrastructure (HI, the client) to prepare a Remedial Action Plan (RAP) as part of the Integrated Mental Health Complex (IMHC) located on the corner of Dragonfly Drive and Redbank Road, Westmead, NSW 2145 (the site). More broadly, the site is located within the Westmead Health Precinct, which is located approximately 1.5km north-west of the Parramatta Central Business District (CBD) (the primary metropolitan centre of Western Sydney). The proposed works are located in the north, central part of the Health Precinct. The site is legally described as Lot 1 in DP1194390 and Lot 4 in DP 1077852. The site location and layout are shown on **Figures 1** and **2**, respectively.

HI and WSLHD commissioned a range of environmental site assessments (ESAs) and asbestos quantification assessments (AQAs) across the site within the previous six years, primarily associated with the redevelopment of Westmead Hospital and the assessment of asbestos in soils across the Westmead Precinct and smaller facility relocation projects. A Contamination Assessment (CA, JBS&G 2022[1]) was subsequently completed summarising previous investigations and remediation conducted within the site, and identified asbestos impacted soils to be present that require remediation/management during the proposed redevelopment.

JBS&G (2022) considered that the site could be made suitable for the proposed land use subject to development and implementation of a site-specific RAP in accordance with the relevant regulatory requirements made or approved by the NSW Environment Protection Authority (EPA) and relevant Australian Standards.

This RAP documents the procedures and standards to be followed in order to address the identified asbestos impacted soils in such a manner as to make the site suitable for the proposed future uses.

1.2 Early Works and REF Project Background

This report has been prepared as part of a Review of Environmental Factors (REF) for the Early Works Project at Westmead Hospital which proposes a series of infrastructure improvements to accommodate the future development of the Integrated Mental Health Complex (IMHC, proposed separately as part of State Significant Development Application SSD-44034342).

The purpose of the REF report is to assess the potential environmental impacts which could arise from the proposed works, which include:

- Demolition of the existing Brain Injury Rehabilitation Unit building, Casuarina Lodge and office buildings;
- Diversion of existing in-ground sewer and water services;
- Construction of a new access way to the P14 staff car park;
- Flood mitigation works; and
- Bulk earthworks and tree removal to accommodate the carrying out of the above works.

The proposed works will be carried out within the boundaries of Westmead Hospital, which is located approximately 1.5km north-west of the Parramatta Central Business District (CBD), the

[1] *Contamination Assessment, Westmead Integrated Health Complex (IMHC), Dragonfly Drive, Westmead NSW,* JBS&G Australia Pty Ltd, 5 July 2022, Rev 3 (JBS&G 2022)

primary metropolitan centre of Western Sydney. The site is legally described as Lot 1 DP1194390 and Lot 4 DP 1077852, with works proposed in the central part of the precinct.

1.3 SSDA Project Background

In May 2022, the NSW Government announced the investment of $460 million into the development of a new Integrated Mental Health Complex at Westmead, that will transform the delivery of mental health services across Western Sydney and deliver improved care for patients in line with state and national mental health reforms. The Integrated Mental Health Complex will replace the existing mental health facilities at Cumberland Hospital.

The Integrated Mental Health Complex at Westmead is located within the Westmead Health Precinct, approximately 1.5km north-west of the Parramatta Central Business District (CBD), the primary metropolitan centre of Western Sydney. The site is legally described as Lot 1 DP1194390 and Lot 4 DP 1077852, with works proposed in the central part of the precinct.

The Westmead Health Precinct is one of the largest health, education, research and training precincts in Australia. Spanning approximately 75 hectares, the precinct comprises over 400,000 sqm of health-related developments including four major hospitals, four world-leading medical research institutes, two university campuses and the largest research-intensive pathology service in NSW. Westmead Health Precinct sits within the broader Westmead Health and Innovation District, a cornerstone for investment, economic growth and job creation in Western Sydney, servicing one of the fastest growing populations in Australia.

Approval is being sought for the construction and operation of a new multi-storey Integrated Mental Health Complex at the Westmead Health Precinct comprising of:

- New multi-level hospital facility to a height of approximately 10 storeys;
- New link bridge connecting to the existing central acute services building;
- Minor alterations to the existing road network within the hospital campus;
- Site preparation including bulk earth works, tree removal, cut and fill;
- Inground building services works and utility adjustments, including service diversions;
- Building foundation works;
- Wayfinding and signage; and
- Landscape works.

For a detailed project description refer to the Environmental Impact Statement (EIS) prepared by Ethos Urban.

This RAP has been developed to address the additional contamination assessment requirement of the Secretary's Environmental Assessment Requirements (SEARs) for State Significant Development Application (SSDA, SSD-44034342) for the IMHC project. The additional SEARs requirement is described in **Table 1.1** below.

Table 1.1: SEARs Additional Requirements

Item	Relevant Section of Report
17. Contamination and Remediation	
17.1 *In accordance with SEPP 55, assess and quantify any soil and groundwater contamination and demonstrate that the site is suitable (or will be suitable, after remediation) for the development.*	All sections of this report
Additional Assessment Requirements	
In relation to Contamination and Remediation, if required, provide a Remediation Action Plan (RAP) including Interim Audit Advice from an EPA-accredited Site Auditor certifying the RAP as appropriate.	All sections of this report

1.4 Objectives

The objective of this RAP is to document the procedures and standards to be followed in order to address the contamination identified at the site, ensuring the protection of human health and the surrounding environment, such that the contamination is remediated / managed in such a manner as to make the site suitable for the proposed future uses.

2. Site Condition & Surrounding Environments

2.1 Site Identification

The location of the site is shown on **Figure 1**. The layout of the site is shown on **Figure 2**. The site details are summarised in **Table 2.1**.

Table 2.1 Summary Site Details

Lot/DP	Part Lot 1 in DP 1194390 – Westmead Hospital Lot
Site Address	Corner of Dragonfly Drive and Redbank Road, Westmead NSW
Local Government Authority	Parramatta City Council
Site Area	1.8 ha
Site Zoning	SP2 (Health Services Facility) under Parramatta Local Environmental Plan (LEP) 2011
Current Land Use	Brain Injury Rehabilitation Service (BIRS) building, Casuarina Lodge, the Westmead Integrated Project Office (IPO), site offices and associated carparking/open space areas.
Previous Land Use	Agricultural land prior to 1970s

2.2 Site Description

The site comprised the following:

- The BIRS building in the south-eastern portion of the site bordering Redbank Road, and associated vegetated/paved outdoor areas;
- A portion of the Casuarina Lodge and surrounding landscaped areas in the western portion of the site;
- Westmead IPO building in the north-western portion of the site;
- Temporary site offices associated with the Westmead Hospital Redevelopment in the south-western portion of the site;
- Asphalt hardstand carparking (new oval carpark) in the central portion of the site; and
- Grass, exposed soils, trees and asphalt hardstand carparking to the east of the oval carpark (in the location of the proposed Car Park 14 ramp).

The site was mainly covered by sealed surfaces comprising building footprints, pedestrian pathways and asphalt carparks with landscaped and grassed areas around the Casuarina Lodge and IPO building, and other minor landscaping, mulched and grassed areas through the carpark and surrounding the temporary offices and BIRS building. Grass and vegetation coverage across the site was observed to be generally in good condition. The temporary offices in the south-western portion of the site were constructed on stilts elevated above unsealed surfaces, and a below ground void beneath the eastern portion of BIRS comprised a mixture of sealed carparking spaces and exposed soils. The remaining building footprints appeared to be slab on grade.

Multiple underground services were visually identified at the site including communications, gas, electricity, stormwater water and sewer lines. No evidence of above ground or below ground waste storage was observed at the site. No visual indicators of gross or widespread contamination (including the presence of asbestos containing material (ACM), discolouration of soils, distressed vegetation or other aesthetic concerns) were observed on the site surfaces.

2.3 Surrounding Land-use

The surrounding land-uses of the site are detailed below.

- North – The new oval carpark within the site progresses further north, with Westmead Oval further afield bordered by Toongabbie Creek.
- East – Westmead Hospital child care centres and associated car parking, with other hospital related buildings further afield.
- South – Dragonfly Drive and Redbank Road intersection with other Westmead Hospital buildings further afield.
- West – Dragonfly Drive, Redbank School and a large car park further afield.

2.4 Topography

JBS&G (2022) reviewed topographic information and reported the site is generally flat across the building footprints then generally slopes to the north and east (across the southern portion), with elevations ranging from 16 m AHD to 20 m AHD.

2.5 Geology and Soil

As reported in JBS&G (2022), the site is situated close to the boundary of two Triassic Period geological formations. The first being Hawkesbury Sandstone of the Wianamatta Group, comprising medium to very coarse-grained quartz sandstone, minor laminated mudstone and siltstone lenses. The second being Ashfield Shale of the Wianamatta Group, comprising dark grey to black claystone-siltstone and fine sandstone-siltstone laminate.

Natural site soils comprise the Blacktown soil landscape which comprises residual soils that are shallow to moderately deep hardsetting mottled texture contrast soils, red and brown podzolic soils on crests grading to yellow podzolic soils on lower slopes in drainage lines.

Previous environmental investigations have encountered significant fill material across portions of the site and surrounds.

2.6 Acid Sulfate Soils

JBS&G (2022) reported the site to be in an area of no known occurrences of acid sulfate soils (ASS) being present at the site.

The Parramatta LEP 2011 identifies the site as Class 5 on the LEP Acid Sulfate Soils maps. For sites within this classification, an acid sulfate soil investigation and/or management plan is required prior to issue of a development consent to carry out works within 500 metres of adjacent Class 1, 2, 3 or 4 land that is below 5 metres AHD, and by which the watertable is likely to be lowered below 1 metre AHD on adjacent Class 1, 2, 3 or 4 land.

Based on the above and with consideration to the identified site geology, no further assessment of acid sulfate soil is required with regard to future development of the site.

2.7 Hydrology

Surface water is anticipated to primarily enter the stormwater system and ultimately discharge to Toongabbie Creek, with some infiltration through unsealed soils, grassed areas and garden beds. Toongabbie Creek, located approximately 200 m to the north of the site (**Figure 1**), is a major freshwater tributary of Parramatta River, which itself is approximately 600 m east of the site. Parramatta River varies from a freshwater environment (upstream of the Charles Street Weir) to a brackish/estuarine (downstream of the Charles Street Weir) and ultimately discharges to Sydney Harbour.

2.8 Hydrogeology

JBS&G (2022) reported several registered groundwater bores within 1 km radius of the site. Bores were used for industrial or monitoring purposes and ranged in depth from 10m to >280m.

Monitoring bores were installed typically between 10 and 14 m deep targeting shallow groundwater.

Previous and recent groundwater investigations undertaken at Westmead Hospital have indicated the depth of groundwater seepage ranges between approximately 4 m bgs and 7 m bgs. It is anticipated that groundwater should be shallower closer towards Toongabbie Creek.

Groundwater is expected to flow north towards the Toongabbie Creek, in line with regional topography.

2.9 Meteorology

JBS&G (2022) reported the site is located within the following meteorological setting:

- Average minimum temperatures vary from 6.3 ^{o}C in July to 17.7 ^{o}C in January;
- Average maximum temperatures vary from 17.5 ^{o}C in July to 28.6 ^{o}C in January;
- The average annual rainfall is approximately 966 mm with rainfall greater than 1 mm occurring on an average of 89.6 days per year; and
- Monthly rainfall varies from 45.6 mm in July to 126.2 mm in February with the wettest periods occurring on average between January and March.

3. Previous Environmental Reports

3.1 Report on Contamination Risks, Westmead Hospital Redevelopment, Hawkesbury Road, Westmead (Douglas Partners 2014[2])

DP was engaged by HI to report on the contamination risks associated with the proposed future development of Westmead Hospital. The report identified known asbestos contaminated fill within the central portion of the site, north of the BIRS building, and assumed asbestos contaminated fill across the remainder of the site.

3.2 Westmead Oval Asbestos Quantification (JBS&G 2014[3])

JBS&G was engaged by WSLHD to undertake an asbestos quantification assessment (AQA) of 'the Oval' and surrounds at Westmead Hospital, located to the immediate northwest of the subject site. A total of 69 AQA locations to a vertical extent of 0.5 m bgs were completed across the oval and surrounds, with locations completed in the current site area shown in **Figure 3** with 'JBS&G 2014' label.

Soils in the Oval exceeded visible surface ACM site investigation levels in 1 of 26 locations, exceeded bonded ACM site investigation levels in 1 of 26 locations, and exceeded friable asbestos fines (AF) / fibrous asbestos (FA) site investigation levels in 11 of 26 locations.

Soils in the areas surrounding the Oval exceeded visible surface ACM site investigation levels in 31 of 43 locations, exceeded bonded ACM site investigation levels in 25 of 43 locations, and exceeded AF / FA site investigation levels in 34 of 43 locations, inclusive of locations advanced within the current site.

The following recommendations were made:

- The preparation and implementation of an interim site management plan immediately to address the identified asbestos in soil and aesthetic concerns identified at the site in the short term. As an immediate first step, it was recommended access to some areas investigated be prevented and perimeter air monitoring continued until the interim management measures are implemented in full.
- The preparation of a site specific Human Health Risk Assessment (HHRA) to derive appropriate site specific response levels for asbestos in soils.
- The preparation of a Remedial Action Plan (RAP) using the site specific response levels derived in the HHRA, to detail the actions required to address the management of asbestos in soils at the site.
- The updating of the WSLHD asbestos register for Westmead Hospital, to take into account the findings from the investigation.
- The updating of the WSLHD AMP Version 2.1 to provide specific details to staff / contractors / personnel undertaking activities on the site, including, but not limited to, ground disturbance and surface maintenance.

[2] *Report on Contamination Risks, Westmead Hospital Redevelopment, Hawkesbury Road Westmead*, Douglas Partners, July 2014 (DP 2014).

[3] *Westmead Oval Asbestos Quantification, Westmead Hospital, Westmead NSW.* Prepared for Western Sydney Local Health District by JBS&G Australia Pty Ltd. Dated 10 December 2014. Reference 50391/60178 Rev 0 (JBS&G 2014)

3.3 Westmead Hospital Redevelopment Asbestos Quantification Assessment (JBS&G 2015a[4])

JBS&G was engaged by HI to complete an AQA for the Westmead Hospital Redevelopment (WHR). The objective of the AQA was to undertake a quantitative assessment of asbestos in soils at the site and if required, make recommendations for the remediation and management of asbestos impacted soils at the site. Locations advanced within the site are shown on **Figure 3** with 'JBS&G 2015' label.

- Fill materials were considered to be impacted with asbestos across the extent of Westmead Hospital Lot and the south-eastern portion of the Ageing, Disability and Home Care Agency (ADHC) Lot.
- Bonded ACM concentrations in soil exceeded the risk based site specific assessment criteria in 58 of 159 samples in the 0 to 1 m bgs depth range, in 17 of 86 samples in the 1 to 2 m bgs depth range and in 15 of 55 samples in the 2 to 3 m bgs depth range on the Westmead Hospital Lot, inclusive of locations advanced within the site.
- AF/FA concentrations in soil exceeded the risk based site specific assessment criteria in 68 of 159 samples in the 0 to 1 m bgs depth range, in 22 of 86 samples in the 1 to 2 m bgs depth range and in 15 of 55 samples in the 2 to 3 m bgs depth range on the Westmead Hospital Lot, inclusive of locations advanced within the site.
- It was considered the site could be made suitable for the proposed health services facility (hospital) land use, subject to the implementation of a RAP to address the identified asbestos impact, and the implementation of a Long Term Environmental Management Plan (LTEMP) to address long term site maintenance of the remedial strategy.

3.4 Westmead Hospital Redevelopment Data Gap Assessment (JBS&G 2015b[5])

JBS&G was engaged by HI to conduct a Data Gap Assessment (DGA) for the WHR, to address identified data gaps and to draw conclusions regarding the suitability of the site to be redeveloped for continued use as a health services facility or to make recommendations such that identified contamination is remediated /managed in such a manner as to enable such conclusions. A total of 52 soil sample locations and 3 groundwater wells were assessed across the site. The locations are consistent with the locations shown on **Figure 3** as 'JBS&G 2015'.

It was considered that the site could be made suitable for the proposed health services facility land use, subject to the implementation of a RAP to address the known asbestos impact, above ground storage tank (AST) and underground storage tanks (UST) infrastructure and data gaps. The concentrations of non-asbestos contaminants in soil were all less than the adopted site assessment criteria. The concentrations of contaminants in groundwater were generally less than the adopted site criteria, with the exception of some heavy metals, which were typically associated with built up urban environments.

Non-asbestos soil and groundwater contaminants were considered not to represent a potential risk to future onsite receptors or the environment. No background soil concentrations, chemical mixtures, aesthetic issues or offsite migrations risks were identified in this assessment.

[4] *Westmead Hospital Redevelopment Asbestos Quantification, Westmead NSW, JBS&G Australia Pty Ltd, July 2015.* Reference 50369/100702 Revision 0 *(JBS&G 2015a*).

[5] *Westmead Hospital Redevelopment Data Gap Assessment, Westmead NSW, JBS&G Australia Pty Ltd, July 2015.* Reference 50369/100667 Revision 0 *(JBS&G 2015b*).

3.5 The Children's Hospital at Westmead Stage 2 Redevelopment, DSI (JBS&G 2021)

JBS&G was engaged by HI to conduct a DSI of the proposed Westmead Children's Hospital Stage 2 Paediatric Services Building (PSB) Redevelopment, with two locations completed in the eastern portion of the site (**Figure 3**, BH22/MW02 and BH23 with label 'JBSG 2019'). The investigation works comprised a detailed site inspection and advancement of 42 soil sampling locations, with three locations converted into monitoring wells. Soil and groundwater were subsequently analysed from these locations to characterise subsurface conditions.

Based on the scope of work the following conclusions were made:

- Several types of fill materials were encountered across the area, however the dominant fill type consisted of brown to dark brown heterogenous sandy clay / silty sandy clay to depths ranging from 1.5 m bgs to 6.2 m bgs, with anthropogenic inclusions of asbestos, plastic, metal fragments, bricks, concrete fragments, igneous gravels, trace bitumen and glass. The vertical extent of fill was not determined at some locations due to refusal on concrete slab.
- Multiple chemical exceedances were reported above the adopted ecological criteria; however, these exceedances were not considered to be statistically significant or present unacceptable risks requiring remediation or management.
- Bonded ACM and AF/FA exceeded the site assessment criteria at a number of sample locations across the lateral and vertical extent of the gravelly clay fill material across the investigation area. All fill materials at the site were considered to be impacted by asbestos in soils, including those within the site.
- No groundwater, chemical mixtures or significant offsite migration risks were identified.

On this basis, it was considered that subject to development and implementation of site-specific RAP, AMP and CEMP during future redevelopment works, the investigation area could be made suitable for the proposed hospital land use.

3.6 Westmead Redevelopment Environmental Site Assessments, Remediation and Validation at Various Locations (2015 to current)

JBS&G, and others to a lesser extent, have conducted a range of environmental assessments and AQAs across the three Westmead Redevelopment stages:

- Stage 1 Early and Enabling Works – located in the southern portion of the ADHC campus and northern and north-western portions of the Westmead Hospital Campus, including through the central portion of the site;
- Multistorey Carpark – located in the north-western portion of the Westmead Hospital Campus beyond the current site; and
- Central Acute Services Building – located in the south-eastern and central portions of the Westmead Hospital footprint beyond the current site.

Asbestos impacted soils were identified across the majority of the three project areas. Localised contamination issues such as related to USTs and ASTs were also identified. Concentrations of other typical contaminants such as heavy metals, polycyclic aromatic hydrocarbons (PAHs), total recoverable hydrocarbons (TRH), benzene, toluene, ethylbenzene and xylene (BTEX), organochlorine pesticides (OCPs) and polychlorinated biphenyls (PCBs) were generally below the adopted site criteria and were not identified to be gross or widespread contaminants across the three redevelopment stages.

To this extent, RAPs were prepared for each of the redevelopment stages to facilitate the management of asbestos impacted soils and other localised potential contamination issues (such as USTs and ASTs). The Stage 1 Early Works, Multistorey Carpark and Central Acute Services Building remediation and redevelopments have been completed in accordance with the proposed remedial and development schedule. An independent NSW EPA Accredited Site Auditor was engaged for all three stages of the redevelopment.

The extent of the remediation works completed across the current site is presented as the shaded areas on **Figure 4**, noting that the remediation strategy was capping and containing of asbestos impacted fill beneath a marker and capping layer. Earthworks as part of the proposed IMHC development will encounter asbestos impacted fill beneath the capping layers shown in **Figure 4**, with the capping layer extents detailed below:

- Light blue shading: Asphalt/concrete slabs, comprising asphalt hardstand ground surface, sub-base material beneath (variable capping depth) and a bright orange geotextile marker layer encapsulating asbestos impacted fill;
- Yellow shading: Landscaping areas comprising a minimum 500 mm capping layer and bright orange geotextile marker layer encapsulating asbestos impacted fill: and
- Green shading: turfed areas comprising a minimum 300 mm capping layer and bright orange geotextile marker layer encapsulating asbestos impacted fill.

It is noted that the unshaded areas on **Figure 4** are assumed to contain asbestos impacted fill from a review of historical filling activities of known asbestos impacted soils across the site, as documented herein.

4. Summary Site History

A summary of the site history as it relates to the site as detailed in JBS&G (2022) is presented below.

Table 4.1 Summary of Historical Aerial Imagery Review

Year	Observations
1943	The site and the surrounding lands appeared to be used for agricultural purposes. No residential or industrial development were apparent on site. Earthen tracks were observed passing through the site, with an access road appearing to cross through the southern portion of the site. A dam was also observed to the north-east of the site.
1951	The site and the surrounding lands remained unchanged from the 1943 aerial. The dam observed to the north-east appeared to be partially filled, with what appeared to be small stockpiles observed to the east of the dam.
1961	The site remained relatively unchanged from the 1951 aerial. Additional stockpiles to the east of the dam were observed, with the dam almost filled. Surface water was also observed to the north of the site, indicating potential dam dewatering. A circular earth track and stockpiled soils observed across land to the south-west.
1965	The site appeared relatively unchanged from the 1961 aerial, with the road observed to the south more prominent in this aerial. The earthworks area visible in the 1961 aerial to the south of the site appeared to be used for car parking. Other earthworks were observed to the south-east of the site, extending from the existing buildings. The dam observed in the 1943/1951 aerial was no longer present, with disturbed ground from the filling of the dam extending to the north-eastern boundary of the site.
1970	Vegetation appeared to be in the process of removal from the site while the majority of the site remained vacant. Small stockpiles were observed in the northern portion of the site, extending further north. Buildings were erected across properties to the south-west and south-east of the site as part of the Westmead Hospital precinct, with earthworks apparent to the south of the site.
1975	Significant earthworks were observed across the site and surrounding areas, with the quality of the image precluding specific observations within the site. What appears to be a large stockpile or filling area was observed in the northern portion of the site, extending further north, with the remainder of the site cleared or bare ground. Building construction works were observed to the east and west of the site.
1978	Increased clarity in the 1978 aerial shows earthworks including placement and spreading of fill progressing across the site and surrounds as well as the formation of Redbank Road to the south. Increased development associated with Westmead Hospital was observed to the west and south of the site, with buildings and carparks and material laydown areas observed.
1980	A building under construction was observed in the north-western portion of the site (current Westmead IPO). A car parking area was also observed in the southern portion of the site. The current Redbank Road was constructed with what appeared to be a drainage line from the IPO to Redbank Road. The remaining site appeared vacant. Buildings associated with Westmead Hospital were observed to the south, east and west of the site, with the current Westmead Oval observed to the northeast, with several straight trenches apparent including two trenches extending into the central north of the site.
1986	The car park in the southern portion of the site was extended to the northeast bordering Redbank Road. A sealed access road from Redbank Road to the IPO building was observed in the western portion of the site. The remainder of the site was vegetated or grassed. Westmead Oval to the north also appeared to be grassed. Development appeared to be completed across the areas surrounding the site, with buildings, carparking areas and vegetation observed surrounding the site.
1991	The Casuarina Lodge building was erected in the western portion of the site. The remainder of the site appeared relatively unchanged from the 1986 aerial. The surrounding areas appeared relatively unchanged from the 1986 aerial, with added carparking to the east and west and the

	existing child care centres further east. Earthworks associated with the Westmead Children's Hospital development was also observed to the south-east.
1998	The BIRS building was observed in the southern portion of the site, with the carpark extended towards the centre and north. Additional Westmead Hospital buildings were observed to the south/south-east of the site, with the remainder of the surrounds appearing relatively unchanged.

5. Contamination Status

5.1 Summary of Known Contamination

Contamination of land is defined by the *Contaminated Land Management Act 1997* (CLM Act) as "the presence in, on or under the land of a substance at a concentration above the concentration at which the substance is normally present in, on or under (respectively) land in the same locality, being a presence that presents a risk of harm to human health or any other aspect of the environment."

5.1.1 Asbestos Contaminated Fill

Previous investigations identified friable and non-friable (bonded) asbestos contaminated fill comprising brown silty sands and brown sandy/gravelly/silty clays across the site and surrounding areas. The extent of this fill type beneath the buildings (BIRS, Casuarina and IPO) is currently unknown, however, is assumed to be present across the site considering these building footprints were subject to filling with similar asbestos contaminated fill used across the broader Westmead Hospital redevelopment in the 1970s.

It is noted that a portion of the site has been subject to remediation via a cap and contain remedial strategy (area shown on **Figure 4**). Asbestos impacted fill beneath the marker and capping layers will be encountered during redevelopment of the site.

Where other fill types were identified as a conservative measure, these differing fill types are also assumed to be asbestos containing based on a review of the site development history and previous experience with differing fill types across other portions of the Westmead hospital campus. If these differing fill materials are surplus to site requirements and there is potential for segregation of these soils from the asbestos impacted fill during redevelopment, additional asbestos assessments can be conducted to assess whether these soils could be re-used within the site or disposed as non-asbestos impacted soil. There is also opportunity to segregate and either re-use or dispose of the existing capping materials as non-asbestos fill if earthworks are proposed across these areas (shown on **Figure 4**).

The proposed development works of the site comprise an area of approximately 1.8 ha and will therefore disturb an aggregate area of contaminated soil of less than 3 ha.

5.2 Summary of Potential Contamination Data Gaps

Soils underlying the existing BIRS, Casuarina Lodge, IPO and adjacent areas have not been assessed due to access limitations. It is presumed that the asbestos impacted fill will extend beneath these areas, with soils requiring further assessment as per the sampling regime in **Table 9.2**. Proposed sampling locations will be completed on a 20 m grid consistent with previous environmental investigations across the Westmead Hospital Campus, with approximate locations detailed on **Figure 5**.

Soils within the proposed Car Park 14 ramp areas have only been assessed for asbestos in soils to a depth of 0.5 and will require further characterisation to confirm the extent (depth) of asbestos impacted soils and to confirm the absence of other COPCs.

6. Remediation Options

6.1 Remediation Objectives

The remediation objectives are outlined as follows:

- Removal of unacceptable risks to human health and the environment from the identified asbestos contaminated fill such that the site is suitable for the proposed uses;
- Validate the remedial works in accordance with the relevant NSW EPA made and endorsed guidelines and with reference to the adopted site criteria; and
- Document the validation process.

This RAP has been prepared with reference to the following guidelines:

- *State Environmental Planning Policy (Resilience and Hazards) 2021* – Chapter 4 Remediation of Land (Resilience and Hazards SEPP).
- *Contaminated Sites: Sampling Design Guidelines*, September 1995 (EPA 1995).
- *Contaminated Land Guidelines: Consultants Reporting on Contaminated Land*, NSW EPA, May 2020 (EPA 2020).
- *Contaminated Land Management: Guidelines for the NSW Site Auditor Scheme*, 3rd Edition, NSW EPA, October 2017 (EPA 2017).
- *National Environment Protection (Assessment of Site Contamination) Measure 1999*, as amended 2013, National Environment Protection Council (NEPC 2013).
- *How to safely remove asbestos - Code of Practice,* Safe Work Australia, 2020 (SWA 2020a).
- *How to manage and control asbestos in the workplace - Code of Practice,* Safe Work Australia, 2020 (SWA 2020b).
- *Management of asbestos in the non-occupational environment*, enHealth Council, 2005 (enHealth 2005).
- *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia*, Government of Western Australia Department of Health, 2009 (WA DoH 2009).

6.2 Extent of Remediation

6.2.1 Asbestos Impacted Fill

The lateral extent of known/assumed asbestos contamination is shown in **Figure 6**, comprising locations of known asbestos impacted fill across previously assessed portions of the site, and fill material beneath the building footprints and adjacent areas that has been assumed to be impacted with asbestos for the purposes of this RAP and which will be further defined during the data gap assessment.

The vertical extent of remediation will be to the vertical depth of asbestos contaminated fill, with consideration to the specific design options for the site which may form permanent capping layers (such as permanent slabs underlying the IMHC building, car parks, access roadways etc.).

6.3 Consideration of Possible Remediation Options

6.3.1 Remediation Approach

The approach adopted in this RAP is consistent with the preferred hierarchy of options for site clean-up and/or management provided in NEPC (2013) and referred to in EPA (2017), which are listed as follows:

- on-site treatment so that the contaminant is either destroyed or the associated hazard is reduced to an acceptable level;
- off-site treatment of excavated soil so that the contaminant is either destroyed or the associated hazard is reduced to an acceptable level, after which the soil is returned to the site; or

if the above are not practicable,

- consolidation and isolation of the soil on-site by containment within a properly designed barrier; and
- removal of contaminated soil to an approved site or facility, followed where necessary, by replacement with appropriate material;

or

- where the assessment indicates remediation would have no net environmental benefit or would have a net adverse environmental effect, implementation of an appropriate management strategy.

In addition, it is also a requirement that remediation should not proceed in the event that it is likely to cause a greater adverse effect than leaving the site undisturbed. In addition, where there are large quantities of soil with low levels of contamination, alternative strategies are required to be considered or developed (EPA 2017). Sustainability should also be considered when deciding which remediation option to choose, in terms of achieving an appropriate balance between the benefits and effects of undertaking the option. Consideration of each of the available options is presented in **Table 6.1**, considering the proposed development works at the site.

6.3.2 Asbestos Management Approach

WA DoH 2009 provides specific guidance in the remediation and management of asbestos.

WA DoH 2009 note the following considerations as important when assessing the acceptability of any remediation:

- Minimisation of public risk;
- Minimisation of contaminated soil disturbance; and
- Minimisation of contaminated material/soil moved to landfill and associated transportation risks.

Consideration of each of the WA DOH 2009 guidance is presented in **Table 6.1**, taking into account the proposed development works at the site. The NSW EPA position statement[6] on a more recent 2021 version of this guidance and related to management of asbestos in soil in NSW was also taken into consideration.

[6] *Position statement – WA guidelines for asbestos contaminated sites*, https://www.epa.nsw.gov.au/your-environment/contaminated-land/other-contamination-issues/managing-asbestos-in-and-on-land/position-statement-wa-managment-of-asbestos-sites, accessed 29 April 2022

6.4 Possible Remedial Options

Table 6.1: Remedial Options Matrix

Option of Treatment	Discussion	Conclusion
Option 1: On-site treatment of the soil so that the contaminant is either destroyed or the associated hazard is reduced to an acceptable level.	FA / AF impacted soils FA / AF are typically heterogeneously distributed throughout impacted soils and are not readily visible to the naked eye. On this basis, there is no option considered appropriate to remove asbestos fibres from impacted soils on site. Furthermore, attempted removal of FA / AF from impacted soil would results in increased disturbance of FA / AF impacted soils.	Not a suitable option.
	ACM only impacted soils Bound ACM can be removed from impacted surface soils (<10 cm) by hand-picking under certain conditions. It is noted EPA's current position on ACM picking (as noted in **Section 6.3.2**) limits the application of this approach to surface and shallow (<10cm) soils where the source of the ACM is previously poor/incomplete demolition of an asbestos structure, and therefore this option has not been considered suitable with consideration to ACM in fill at the site.	Not a suitable option.
Option 2: Off-site treatment of excavated soil so that the contaminant is either destroyed or the associated hazard is reduced to an acceptable level, after which the soil is returned to the site.	FA / AF impacted soils As with Option 1, treatment of these materials is not a viable option.	Not a suitable option.
	ACM only impacted soils As above (Option 1), however, there are reductions in noise and dust emissions on site in comparison to on-site treatment (Option 1), but these are offset by increased truck movements. Typically, the costs associated with returning the treated materials to site may be equivalent to the costs associated with disposal to landfill. Furthermore, there are currently no facilities licensed to accept asbestos impacted material for offsite treatment.	Not a suitable option.
Option 3: Consolidation and isolation of the soil on-site by containment within a properly designed barrier.	FA / AF impacted soils Given the extent of FA / AF impacted soils across the hospital campus portion of the site, a remediation objective was to minimise disturbance of FA / AF impacted soils where possible, which is in accordance with guidance provided by WA DoH 2009. It is considered that extensive remediation, removal and disposal of FA / AF heavily impacted soils would cause a greater adverse effect than if the impacted soils remain in-situ where possible and are contained and managed in the long term. It is noted that containment of contaminated soil would require the potential exposure to contamination to be managed by the implementation of a Long Term Asbestos Management Plan (LTAMP). There must be acceptance by the ultimate custodian of the land that future controls will be implemented, and that a notation will be made on the Title of the land. Implementation of a LTAMP is considered feasible for the site given the proposed long term uses as a health services facility.	**The preferred option.**
	ACM only impacted soils Onsite containment is a suitable remedial option for areas where ACM impact is present above a threshold that renders it commercially unviable to remediate for onsite reuse. This may be due to an inability to effectively remove non-friable ACM due to soil type and building rubble concentration. The amount of material able to be contained onsite will be dependent upon final design levels and the total volumes of fill materials required.	A suitable option if unable to remediate onsite.

Option of Treatment	Discussion	Conclusion
Option 4: Removal of contaminated soil to an approved site or facility, followed where necessary by replacement with clean fill.	FA / AF impacted soils There are currently suitably licensed waste facilities in the Sydney Metropolitan region capable of accepting asbestos contaminated soils. Offsite disposal of FA / AF impacted soils is likely the fastest method of remediation, but also involves significant disturbance of the FA / AF impacted materials and should be limited to excess material that cannot remain contained onsite. This option generates the highest quantity of waste, since the materials are disposed to landfill rather than treated and reused (i.e. Options 1 & 2) or retained on site (Option 3). This option also generates additional truck movements and associated fuel/emissions over Option 1 and Option 3, but less than Option 2, since materials are not returned to site	A suitable option if unable to contain onsite.
	ACM only impacted soils Offsite disposal is a suitable remedial option for areas where ACM impact is present above a threshold that renders it commercially unviable to remediate for onsite reuse. This may be due to an inability to effectively remove bound ACM due to soil type and building rubble concentration.	A suitable option if unable to remediate or contain onsite.

6.5 Preferred Remedial Strategy

A number of potential remedial options have been outlined in **Table 6.1**. The preferred remedial strategy for the site is:

- Containment of asbestos impacted soils onsite, subject to space constraints, with the installation of a marker layer, capping layer, implementation of a LTAMP and notation on the land Title.

Offsite disposal of asbestos impacted soils, if asbestos impacted soils are surplus to the development and cannot be contained on site due to space constraints, is also considered to be a suitable option if considered to be feasible as part of the development works.

6.6 Remediation Principles

The following remedial principles must be implemented during remedial works:

- Minimise risk to public and worker health;
- Minimise the area and extent of disturbance of asbestos impacted fill; and
- Minimise off-site disposal of asbestos impacted fill.

7. Remediation Plan

7.1 Approvals, licences and notifications

Based on the findings of previous investigations, the total volume of known contaminated material is anticipated to be less than 30 000 m^3. The total area of the site subject to remediation will be less than 3 aggregate hectares of contaminated material, with disturbances restricted to the extent of design requirements as shown in **Appendix A**. To this extent, the works are considered to be Category 2 remediation works in accordance with Resilience and Hazards SEPP. Further discussion of the required notification period under Resilience and Hazards SEPP is provided in **Section 11.1**.

An appropriately experienced and licensed Remediation Contractor is required to undertake the works, under the supervision of an appropriately qualified and experienced Remediation Consultant. As it is considered that friable asbestos impacted soils will be encountered, the works must be conducted by a Class A (friable) licensed contractor who has obtained a site specific permit approving the asbestos works from SafeWork NSW. This permit application must be made at least seven working days before removal work is commenced.

Remediation works shall not commence until all required approvals, licences and notifications have been granted and/or received.

Furthermore, all required environmental and health and safety documentations must be completed prior to the commencement of remedial works, and should as a minimum include the Construction Environmental Management Plan (CEMP) and Work Health and Safety Plan (WHSP), as detailed in **Section 11**.

7.2 Site Establishment

The boundary of the extent of remediation will be defined by the Remediation Consultant. The Contractor shall secure these areas to ensure that all safety and environmental controls are implemented. These controls will include, but not be limited to:

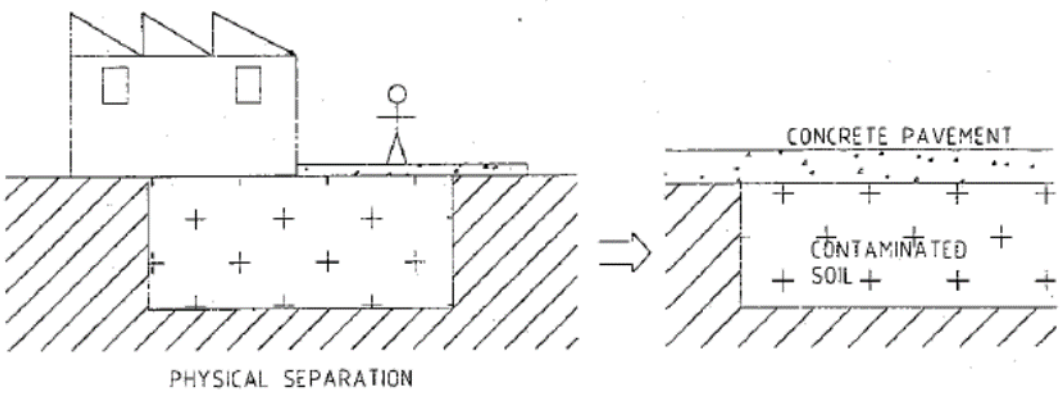
- Locate and isolate all required utilities in the proximity of the works;
- Assess need for and implement any necessary traffic controls;
- Work area security fencing;
- Site signage and contact numbers;
- Stabilised site entry gate;
- Appropriate decontamination areas for personnel and plant;
- Sediment fencing (attached to security fencing) where necessary; and
- Stormwater runoff and sediment controls (e.g. silt fences and hay bales) where necessary.

7.3 Containment of Impacted Fill Option

Asbestos impacted fill can be managed via containment and the implementation of physical separation or within a “Containment Cell”, which eliminates the inhalation exposure pathway for airborne asbestos fibres. The minimum requirements for the physical separation to be adopted in the remediation of the site include:

- A minimum soil cover thickness of 0.3 m in turfed areas, 0.5 m in mass planting/shallow landscaped areas and 0.6 m in tree pit zones which is underlain by a "marker layer" in unpaved areas, i.e., parks, gardens and green open spaces etc.; or
- Permanent concrete floor/ground/wall slabs or asphaltic concrete surfaced pavements and underlain by a "marker layer", i.e., underlying buildings, roads, pathways; or
- Top (concrete) of pile foundations (no marker layer required for below pile foundations).

A conceptual sketch, sourced from ANZECC 1999[7], is shown following:



The marker layer shall consist of a bright orange coloured non-woven polyester continuous filament or PET (such as nonwoven geotextiles) or similar with a minimum density of approximately 150 grams per square metre (or equivalent). The marker layer must:

- Be easily recognisable within soils (i.e., bright orange in colour);
- Be durable as a long term marker layer (i.e., > 150 grams per square metre); and
- Maintain integrity during remedial/civil works such as capping layer insulation and road/building construction.

Additionally, the marker layer must meet geotechnical and civil specifications where required, i.e., underlying roads.

The marker layer should be installed flush with the exterior of all pile foundations. A marker layer is not required below pile foundations.

Typically, at least 0.5 m depth capping layer in vegetated areas is required for containment of asbestos impacted soils (ANZECC 1999). However, Westmead Hospital Campus, which is currently managed by WSLHD is considered to have effective institutional management controls in place such as contractor inductions, an AMP and a Ground Disturbance Procedure which minimise the risk of containment failure. Therefore, a reduced cover of 0.3 m depth capping in turfed areas is considered appropriate. Deeper capping layers have been specified in mass planting and tree pit zones to accommodate for the increased root depths of native tall grasses, shrubs and trees, and to minimise potential containment failure during future landscaping works in these areas. Furthermore, this enables the proposed finished ground surface levels of the redevelopment to be commensurate with the current ground surface levels of the hospital campus, thus eliminating additional unnecessary disturbance of asbestos impacted materials.

[7] *Guidelines for the Assessment of On-site Containment of Contaminated Soil,* Australian and New Zealand Environment and Conservation Council, September 1999. (ANZECC 1999).

The specific details of the marker layer are required to be included in the site validation report and LTAMP documents in addition to surveyed plans showing the extent of capped area within the site.

7.3.1 Interim Capping Arrangements During Construction Works

To manage the potential contamination exposure risks to site construction workers, including but not limited to airborne asbestos fibres, an interim impermeable capping profile installed at the completion of the excavation works within areas of the site where asbestos impacted fill is present, may be preferred. This capping layer will comprise either a minimum 150 mm robust material capping layer or concrete building slab (including the concreted surface of pile foundations) that will extend across the ground to the boundary of the impacted area. The material must be able to withstand construction based activities, such as moving excavators and other plant. Examples of suitable interim capping materials include validated crushed recycled concrete, crushed rock or similar hard materials.

The interim capping approach is considered appropriate to complete (in the interim) the requirements of the RAP as the material or pavement will form a durable physical barrier such that there is:

- No complete exposure pathway (inhalation of asbestos fibres) between the asbestos impacted fill material and future site workers; and
- No significant potential risk of contaminant migration via airborne movement and dust generation etc. into surrounding areas of the site (occupational receptors) or offsite (sensitive receptors).

Where a marker layer is required to be placed underlying the capping as indicated above, this marker layer will be installed prior to construction of the interim capping layer so as to meet the requirements of the RAP.

Once the interim capping arrangements have been installed, the CEMP will address interim management requirements for all site works that may result in penetration of and/or removal of the interim cap. The CEMP will remain applicable until such time as the final capping arrangements are completed at the site, following which the LTAMP, in conjunction with the existing WSLHD AMP (at handover of the site) will replace the interim requirements. It is envisaged that this will occur in conjunction with the completion of construction works such that the CEMP will address primarily construction related activities under the direction of the Contractor, whilst the LTAMP will address primarily site maintenance related activities to be completed under the direction of the future land operators (i.e. WSLHD).

Validation of the interim and permanent capping arrangements will be required as outlined in **Section 9,** including inspections by the Remediation Consultant, a survey plan prepared by a registered surveyor showing the level and lateral extent of the marker layer, interim capping and permanent capping in relation to the site boundaries.

7.3.2 Permanent Capping Arrangements

The following permanent capping arrangements will be applied to appropriate scenarios across the site, prior to completion of construction works:

- Permanent hardstand structures (i.e., concrete slabs, pile caps or asphaltic concrete or similar, but not bricks or pavers) – installation of a marker layer overlying potentially contaminated material followed by sub-grade material validated as environmentally suitable materials for human exposure, and then the permanent structure (e.g., concrete slabs (including footings), exterior concrete footpaths, asphaltic roads, etc.).

- Turfed areas – installation of the marker layer at a minimum depth of 300 mm below final finished site levels, with a capping layer consisting of environmentally suitable materials for potential human and/or ecological exposure.
- Mass planting / shallow landscaping areas – installation of the marker layer at a minimum depth of 500 mm below the final finished site levels, with a capping layer consisting of environmentally suitable materials for potential human and/or ecological exposure.
- New tree pit zones – installation of the marker layer at a minimum depth of 600 mm below the final finished site levels, with a capping layer consisting of environmentally suitable materials for potential human and/or ecological exposure.
- Existing tree zones – installation of the marker layer consistent with immediately adjacent marker layer depths (e.g., 300 mm in turfed areas and 500 mm in mass planting areas) to the extent practicable, with a capping layer consisting of environmentally suitable materials for potential human and/or ecological exposure.
- Within underground services trenches / services – service infrastructure will require remediation to 150 mm below the depth of services, with a marker layer and capping layer installed consisting of environmentally suitable materials for potential human and/or ecological exposure.
- Within road reserves – the entire width of newly constructed road reserves, in conjunction with service infrastructure will be required to a depth 150 mm below the depth of the services, with a marker layer and capping layer installed consisting of environmentally suitable materials for potential human exposure.

Preliminary locations and extents of finished site surfaces, i.e., permanent hardstand structures and landscaped areas are detailed in the draft Proposed Site Plan in **Appendix A**.

Where a marker layer has been installed and validated as part of the interim capping arrangements, a new marker layer is not required beneath the final capping layer, subject to all capping materials placed over the marker layer having been validated as environmentally suitable.

Material above the marker layer extending to the final finished ground level will be required to be environmentally suitable material for human and/or ecological exposure (as appropriate). This may include: virgin excavated natural material (VENM) sourced from on-site, imported VENM, excavated natural material (ENM) or similar material certified in accordance with a waste exemption issued by the NSW EPA that also meets site suitability criteria; or imported road making materials comprising fresh quarried natural material or material covered by a beneficial reuse exemption issued by the NSW EPA.

Additionally, material underlying load bearing structures such as roads, should be geotechnically suitable, in accordance with previously prepared geotechnical reports. Geotechnical suitability requirements are beyond the scope of this RAP.

In the interface of remediated and non-remediated areas, the extent of the marker and capping layer should be extended a minimum of 300 mm laterally outside the extent of remediated area, where practicable. This may include battering of the marker/capping layer to tie-in with existing site levels within this 300mm extent outside of the remediated area, where practicable.

Validation of the interim and permanent capping arrangements will be required as outlined in **Section 9,** including inspections by the Remediation Consultant, a survey plan prepared by a registered surveyor showing the level and lateral extent of the marker layer, interim capping and permanent capping in relation to the site boundaries.

7.4 Off-Site Disposal Option

Where management of impacted soils will be completed via excavation and off-site disposal, procedures as documented following will require to be implemented to ensure all environmental/health objectives are addressed.

7.4.1 Excavation of Impacted Soils

The impacted soils shall be 'chased out' under the direction and supervision of the Remediation Consultant. The procedure for undertaking this excavation activity will be:

- Excavation of impacted soils to nominated lateral and vertical extent until the soils meet the adopted validation criteria (**Section 9.5**);
- Excavated soils shall be stockpiled on a hardstand or plastic liner pending offsite disposal or loaded directly into the back of a truck for disposal; and
- Any unexpected finds will be managed as per **Section 8.1**.

7.4.2 Offsite Disposal of Material

Any material requiring disposal shall be classified prior to removal by the Remediation Consultant in accordance with EPA (2014) *Waste Classification Guidelines Part 1: Classifying Waste* and relevant waste regulations. Disposal of waste to licensed waste facilities in accordance with relevant waste regulations will be undertaken by the Contractor. All waste tracking documentation including disposal dockets must be maintained by the Contractor and must be provided to the Principal and the Remediation Consultant for inclusion in the validation report.

Any asbestos waste exceeding 100 kilograms or more than 10 m^2 of bonded ACM in one load disposed off-site must be tracked using the NSW EPA online system WasteLocate.

7.5 Validation

Validation of the remedial works will be conducted by the Remediation Consultant to demonstrate the remediation objectives have been achieved. Details of the validation program are provided in **Section 9**.

7.6 Backfilling of Excavations and Imported Fill Materials

Upon confirmation of soil validation by the Remediation Consultant, or application of marker layer, excavations that require reinstating, will be backfilled using on-site validated material and/or validated imported material where required.

7.7 Waste Classification and Offsite Disposal of Material

Classification of ACM and other waste materials/soil will be completed in accordance with EPA (2014) *Waste Classification Guidelines Part 1: Classifying Waste* and relevant waste regulations by the Remediation Consultant. Disposal of waste to licensed waste facilities in accordance with relevant waste regulations will be undertaken by the Contractor. All waste tracking documentation including disposal dockets must be maintained by the Contractor and must be provided to the Principal and the Remediation Consultant (JBS&G) for inclusion in the validation report.

Unless specified above, soils requiring off-site disposal will be sampled by the Remediation Consultant as per the sampling density for stockpiled materials in NEPC (2013) for chemicals of concern.

It is a requirement under the *Protection of the Environment Operations (Waste) Regulation 2014* (POEO Waste Regulation) to record the movement of all loads of more than 100 kg of asbestos

waste or more than 10 m^2 of asbestos sheeting. Each load will be assigned a unique consignment code to allow NSW EPA to monitor their movement from site of generation to disposal.

In addition, the *proximity principle*, under the POEO Waste Regulation, makes it an offence to transport waste generated in NSW by motor vehicle for disposal more than 150 kilometres from the place of generation, unless the is waste is transported to one of the two nearest lawful disposal facilities to the place of generation.

The Contractor must be aware of and conduct all waste disposal in accordance with all relevant regulations.

7.8 Site Disestablishment

On completion of the remediation works all plant / equipment and safety / environmental controls shall be removed from the site by the Contractor. All equipment used during asbestos remediation works will need to be appropriately decontaminated or disposed of as asbestos waste by the Contractor, in accordance with SWA and SafeWork NSW guidance, EPA (2014) guidelines, and the POEO Waste Regulation.

8. Contingency Plan

A review of remediation works has been undertaken to identify potential risks to meeting the specified site validation criteria. A number of potential risks have been identified. These are listed following with contingencies that will be implemented to ensure that validation criteria are met.

Additionally, the associated remedial works health and environmental risks/hazards and their minimisation/mitigation are further discussed in **Sections 10** and **11**.

8.1 Unexpected Finds Protocol

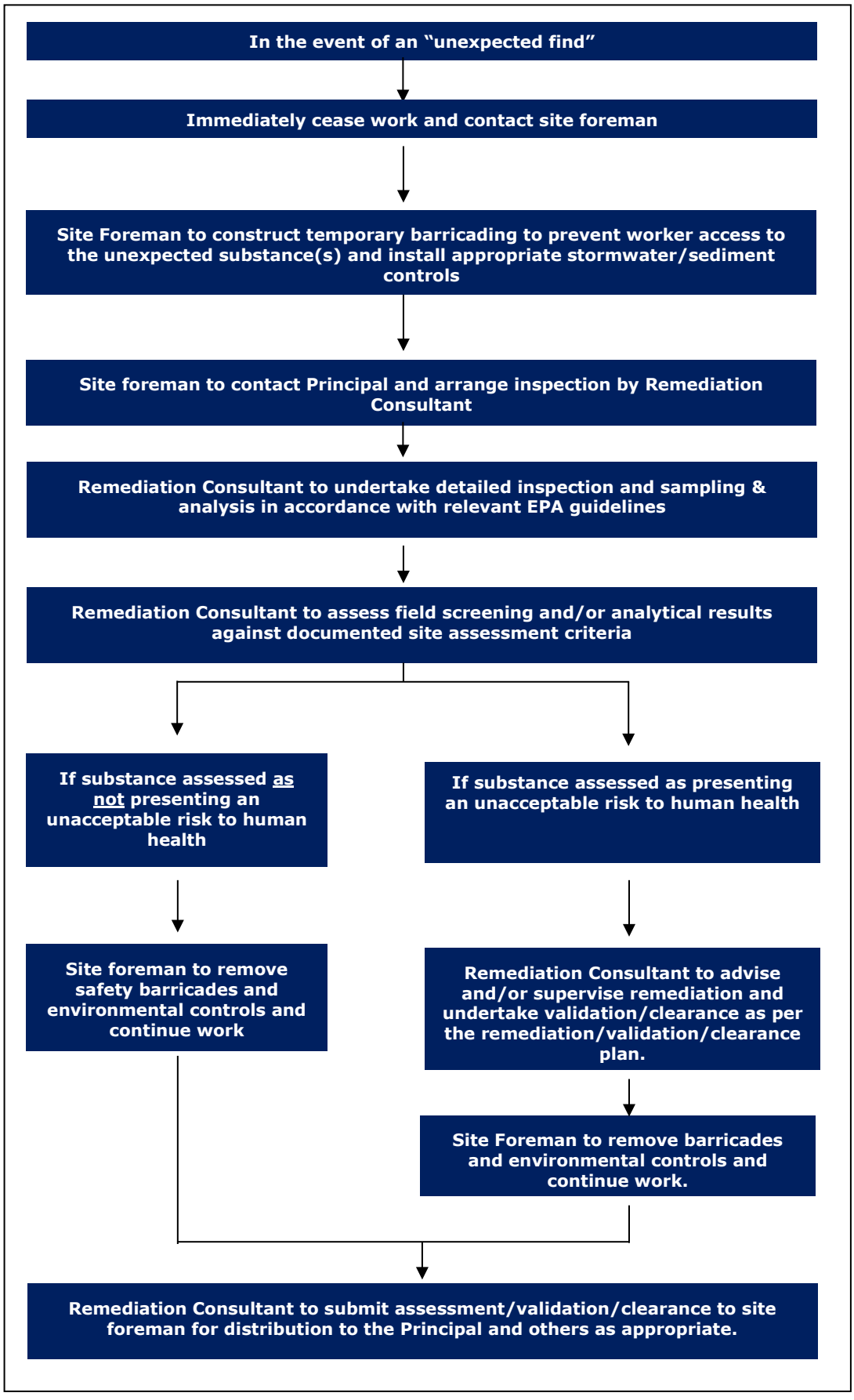
It is acknowledged that previous investigations of the site have been undertaken to assess the identified contaminants of potential concern in selected parts of the site. However, ground conditions between sampling points may vary, and further hazards may arise from unexpected sources and/or in unexpected locations during remediation. The nature of any residual hazards which may be present at the site are generally detectable through visual or olfactory means, for example (presented in **Appendix B** for use onsite):

- Bottles / containers of chemicals (visible);
- Construction / demolition waste (visible);
- Ash and/or slag contaminated soils / fill materials (visible);
- Petroleum contaminated soils (odorous, staining / discolouration visible) beyond the identified impact, or at levels that prevent off-site disposal without treatment; and
- Volatile organic compound contaminated soils (odorous).

As a precautionary measure to ensure the protection of the workforce and surrounding community, should any of the abovementioned substances be identified (or any other unexpected potentially hazardous substance), the procedure summarised in **Flowchart 8.1** is to be followed.

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

Flowchart 8.1 – Unexpected Finds Protocol



8.2 Contingency Scenarios

8.2.1 Remedial Strategy Constraints

In the event that the proposed remedial works do not meet the validation criteria, or if the selected remedial strategy is not able to proceed, the following actions will be considered to ensure, firstly, the safety and health of people and the environment and, secondly, that the overall project objectives are achieved:

- Reassessment of remedial and validation options for ACM, AF and FA contaminated soils; and
- Continued controlled excavation of potential impacted soils.

It is noted that surface bonded (non-friable) ACM can be hand picked to clear shallow (<10cm) soils where the source of ACM is related to previous poor/incomplete demolition of structures and where the asbestos is not in a friable condition (as AF/FA).

8.2.2 Material Storage Breach

In the event any stockpiled or capped materials escape (or have the potential to escape), then the management controls shall be rectified and investigations undertaken to review the adequacy of the controls and any improvements implemented.

8.2.3 Complaints

Due to the nature of the activities and type of contaminants identified at the site there is a potential for complaints to be received from members of the public, patients and staff members relating to environmental emissions including:

- Dust emissions arising from asbestos contaminated soil excavation, material handling, transport, placement and capping; and
- Noise and vibration from excavation.

Monitoring of all environmental emissions shall be undertaken as detailed in **Section 10** and appropriate actions taken to further control emissions following receipt of a complaint. Such additional controls may include the following actions:

- Disturbance of soils during meteorologically favourable periods only; and/or
- Increasing environmental controls including covering and/or wetting down soils which are generating dust.

8.2.4 Lack of Available Space

Works will be scheduled so that new remedial areas will not be opened up until previously excavated areas are capped. This has the benefit of separating asbestos earth works and regular earth works, thus minimising the extent of asbestos earth works occurring at any one stage. Should room availability for unexpected finds become a concern, laboratory-turn-around times for validation samples will be decreased in an attempt to clear open areas. If room onsite does become an issue remedial works will stop until areas can be validated.

8.2.5 Severe Weather

Weather will be monitored on a daily basis via checking an internet based weather service provider. Should severe weather be forecast, especially strong winds, works will stop until safe to re-commence. All site management controls will be implemented to the extent practicable as outlined in **Section 10** prior to any severe weather events.

8.2.6 Odours from Works

Based on the nature of the identified contaminants, off-site odour complaints are considered unlikely. Where complaints occur, the following will be undertaken:

- Installation of an odour screening / masking system at the remediation area boundaries; and/or
- Disturbance of soils during meteorologically favourable periods only; and/or
- The use of odour suppressant additives to water used to keep impact soils/ stockpiles moist; and or
- Covering of impacted soils.

9. Validation Plan

9.1 Overview

Validation data are required to be collected to verify the effectiveness of the remediation works and document the condition of the site as being suitable for the proposed future uses.

Validation activities will be required for the following areas:

- Documentation of installation of containment measures if chosen as the remedial option (both interim and final);
- Validation of imported fill material to demonstrate its suitability for use as a capping layer or in trenching works;
- Validation of soils underlying current structures on the site;
- Movement of all soil and fill material onsite; and
- Waste materials requiring offsite disposal.

9.2 Data Quality Objectives

Data Quality Objectives (DQOs) were developed for the validation program, as discussed in the following sections.

9.2.1 State the Problem

The site is proposed to be developed as part of the IMHC project with associated infrastructure solution to support the provision of 250-300 mental health public inpatient beds, emergency care services and other select services within the Westmead Health Precinct. Previous investigations, as detailed in **Section 3**, have identified asbestos contaminated fill requiring remediation to make the site suitable for the proposed use.

9.2.2 Identify the Decision

The following decisions are required to be made during the validation works:

- Are fill material or natural soils underlying the existing structures (BIRS, Casuarina Lodge and IPO buildings) environmentally suitable?
- Is there potential for fill materials that are not impacted by asbestos above the site criteria to be separated and re-used on site?
- Have marker and capping layers (where required) been installed appropriately and in accordance with RAP requirements?
- Are imported materials environmentally suitable for their proposed use?
- Have waste materials been suitability classified and lawfully disposed?
- Have the works been completed in accordance with the RAP, or where variations to the works were required, have these met the objectives of the RAP?
- Are analytical data generated by the validation works reliable?
- Is the site suitable for the proposed use?

9.2.3 Identify Inputs to the Decision

The inputs to the decision are:

- Previous investigation data;

- Observation and photographic log of marker and capping layer installation (if required);
- Survey of marker and capping layer vertical and lateral extents (if required);
- Field observations and analytical data for soils beneath structures if exposed;
- Field observations, sampling and analytical data for imported materials;
- Field observations, sampling and analytical data for reused materials;
- Field observations, sampling and analytical data for off-site disposal of waste materials;
- Field observations, sampling and analytical data of any unexpected finds;
- Physical observations, including visual, olfactory and photoionisation detector (PID), where appropriate, screening results;
- Documentation of appropriate classification of imported materials;
- Environmental monitoring data to demonstrate that potential airborne pollutants as generated by the handling of environmentally impacted materials on the site has not impacted off-site locations;
- Assessment criteria for soils; and
- Data quality indicators as assessed by quality assurance/quality control (QA/QC).

9.2.4 Define the Study Boundaries

The study boundaries of the site are defined as follows:

- The lateral extent of the works relevant to this RAP as defined by the proposed extent of the IMHC development at the site, as shown on **Figure 2**;
- The vertical extent of the works is defined as:
    - 0.5 m into natural materials; or
    - the maximum depth of where potentially impacted fill materials is to be retained.

9.2.5 Decision Rules

The decision rules adopted to answer the decisions identified in **Section 9.2.2** are discussed below.

Are fill materials or natural soils underlying structures environmentally suitable?

To successfully validate fill material or natural soils underlying the existing building footprints, analytical validation data will be required to meet the environmental quality goals for asbestos in soils and assessment criteria established in **Sections 9.4** and **9.5.1** below.

Where a valid data set can be generated as based on assessment of the soils underlying structures, the following statistical criteria may be applied, where appropriate:

- The 95% UCL average concentrations shall be below the soil criteria;
- The standard deviation of the generated data set shall be below 50% of the soil criteria; and
- The maximum concentration shall be below 250% of the soil criteria.

Existing data for chemical constituents (not asbestos) from materials remaining at the site (**Table A, Appendix B**) shall be included in analytical data sets created for the soils.

Is there potential for fill materials to be assessed for on-site re-use?

To successfully assess the suitability of fill materials to be re-used or retained on site, additional asbestos assessment is required to obtain analytical validation data to meet the assessment criteria and environmental quality goals for asbestos in soils established in **Sections 9.4** and **9.5** below.

Existing asbestos data, as summarised in **Table B, Appendix C,** for asbestos from materials remaining at the site shall be included in analytical data sets created for the soils.

Have marking and capping layers (where required) been installed appropriately and in accordance with RAP requirements?

The marker and capping layers must be installed across the extent of the remedial area, as shown in **Figure 6.** The marker layer must be installed to the RAP requirements, as well as the manufacturer's installation requirements. The vertical and lateral extents of the marker layer should be surveyed, along with consistent and comprehensive photographic evidence.

Where soil based material is to be used as a capping layer, placed above the marker layer and readily accessible to human users, this material is required to be validated as meeting the health and ecological validation requirements for the site in addition to aesthetic requirements.

All imported materials to be used as the capping layer must be environmentally suitable, as defined below.

Are imported soils environmentally suitable for their proposed use?

Material required to be imported onto the site as capping, trench backfill or road building purposes (or any other purpose) are required to be demonstrated to be VENM, ENM or material considered suitable for beneficial reuse in accordance with a resource recovery exemption issued by NSW EPA under the POEO Waste Regulation.

All imported material must not be classified as containing asbestos as per the definition in SWA (2020a).

All imported materials will be assessed to ensure the entirety of the capping layer from surface to the marker layer is validated upon conclusion of remedial works.

VENM

Laboratory analysis results will be compared to published background levels (metals) and nominated laboratory limit of reporting (LORs) (for all man-made chemical constituents) for VENM. The Remediation Consultant will conduct a site inspection of all VENM source sites and approve any VENM Certificates prior to importation of material. If either the source site or supporting documentation is unsatisfactory in regard to certainty of the material comprising VENM, the Remediation Consultant will undertake additional sampling to confirm chemical characterisation of VENM material and prepare any required documentation.

ENM

ENM will be assessed in accordance with the "Excavated Natural Material Order 2014" and the "Excavated Natural Material Exemption 2014". The Remediation Consultant will conduct a site inspection of all ENM source sites and approve any ENM material characterisations prior to importation of material. If either the source site or supporting documentation is unsatisfactory in regard to certainty of the material comprising ENM, the Remediation Consultant will undertake additional sampling to confirm chemical characterisation of ENM material and prepare any required documentation.

Resource Recovery Orders/Exemptions

Any materials falling under this category will be assessed in accordance with the relevant Resource Recovery Order/Exemption (RRO/RRE). The Remediation Consultant will undertake additional assessment and reporting if required to ensure compliance with the relevant RRO/RRE.

Have waste materials been suitability classified and lawfully disposed?

All waste requiring off-site disposal must be suitability characterised and classified in accordance with EPA (2014) *Waste Classification Guidelines* or relevant RRO/RRE (such as ENM).

Fill materials present across the extent of the site are considered to be Special Waste – Asbestos, unless assessment proves otherwise. Additional chemical analysis is required for off-site disposal unless sufficient historical data can be used for waste classification purposes.

Natural soils underlying fill materials across the site may be encountered during excavations and may be suitable for characterisation as VENM, if appropriate care is taken not to mix waste streams, no visual or olfactory signs of contamination are present, and the material meets suitable chemical criteria (if required).

Is the data generated by the validation works reliable?

If the analytical data meets the Data Quality Indicators established in **Section 9.2.11,** then the analytical data are considered to be reliable.

All other data, such as visual observations, photographic logs and surveys will be qualitatively assessed to ensure they contain sufficient information to inform the validation report.

Is a Long Term Asbestos Management Plan Required?

A suitable LTAMP is required at the site if the containment management strategy of asbestos impacted fill materials is conducted. The LTAMP will detail the management strategies required to ensure the long term integrity of the marker and capping layers, such as inspection timetables, accidental penetrations of the marker layer and required controls for scheduled works below the marker layer.

Is the site suitable for the proposed use?

The site will be considered suitable for the proposed use if the following conditions are met:

- Fill materials or natural soils across the site meet the adopted site criteria;
- Marker and capping layers have been appropriate installed and documented;
- Imported soils are considered to be environmentally suitable;
- Analytical data generated is considered reliable; and
- A suitable LTAMP will be implemented at the site.

9.2.6 Specify Limits of Decision Error

A qualitative assessment shall be undertaken of potential decision errors associated with the data, in accordance with the provisions in NEPC 2013.

9.2.7 Optimise the Design for Obtaining Data

The validation sampling design for each specific type of validation works anticipated is discussed in detail in **Section 9.3**. The general sampling methodologies are discussed below.

9.2.8 Soil Sampling Methodology

Soil sampling will be conducted by the Remediation Consultant as required to achieve remedial objectives. The soil sampling method shall be determined by the Remediation Consultant as

consistent with the observations of the site sub-surface and appropriate to generate representative samples. The soil sampling method shall be consistent with the data quality indicators in **Section 9.2.11**.

Where sample locations are placed by boreholes, undisturbed samples, as collected by push tube or SPT sampler, are preferred where able to be effectively implemented. Otherwise, samples may be recovered from solid flight augers or via test pitting. All asbestos quantifications will be recovered from a solid flight auger with a diameter of at least 150 mm or via test pitting. Re-usable equipment shall require to be decontaminated between sampling locations.

9.2.9 Soil Sample Containers

During the collection of soil samples, features such as seepage, discolouration, staining, odours and other indications of contamination shall be noted on field reporting sheets / field logs.

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

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

9.2.10 PID Screening

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

9.2.11 Quality Assurance/Quality Control

The objective of the project is to remediate the site to a standard suitable for the prosed uses. To demonstrate the effectiveness of the remedial works, validation sampling, inspections and analysis will be conducted. The quality of the validation data must be sufficient to draw conclusions regarding the suitability of the site. Hence, the QA/QC program employed as part of the remediation works will involve pre-determined data quality indicators (DQIs).

The DQIs are summarised following and in **Table 9.1:**

- **Precision** - measures the reproducibility of measurements under a given set of conditions. The precision of the laboratory data and sampling techniques is normally assessed by

calculating the Relative Percent Difference (RPD) [8] of duplicate samples. However, this calculation is not applicable due to the presence / absence nature of asbestos, and as such, the agreement between the sample pairs will be assessed instead.

- **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 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 appropriateness of the chosen field and laboratory methods, including the limits of reporting, in producing reliable data in relation to the adopted site assessment criteria.

Table 9.1: Summary of QA/QC Control Program

Data Quality Indicator	Frequency	Data Quality Acceptance Criteria
Precision		
Blind duplicates (intra laboratory)	1 / 20 samples	<50% RPD or agreement between asbestos presence/absence
Blind duplicates (inter laboratory)	1 / 20 samples	<50% RPD or agreement between asbestos presence/absence
Accuracy		
Surrogate spikes	All organic samples	70-130%
Matrix spikes	NA for asbestos analysis. Otherwise 1 per lab batch.	70-130%
Laboratory control samples	1 per lab batch	70-130%
Representativeness		
Sampling appropriate for media and analytes	All samples	All samples
Samples extracted and analysed within holding times.	-	NA for asbestos, organics (14 days), inorganics (6 months)
Laboratory Blanks	1 per lab batch	<LOR
Trip spike	1 per sampling event targeting volatiles	70-130% recovery
Trip blank	1 per sampling event targeting volatiles	<LOR
Comparability		

[8] $RPD(\%) = \frac{|C_o - C_d|}{C_o + C_d} \times 200$

Where C_o is the analyte concentration of the original sample
C_d is the analyte concentration of the duplicate sample

Data Quality Indicator	Frequency	Data Quality Acceptance Criteria
Standard operating procedures for sample collection & handling	All samples	All samples
Standard analytical methods used for all analyses	All samples	All samples
Consistent field conditions, sampling staff and laboratory analysis	All samples	All samples
Limits of reporting appropriate and consistent	All samples	All samples
Completeness		
Soil description and chain of custody (COCs) completed and appropriate	All samples	All samples
Appropriate documentation	All samples	All samples
Satisfactory frequency and result for QC samples	All QA/QC samples	-
Data from critical samples is considered valid	-	Critical samples valid
Sensitivity		
Field and analytical methods and limits of recovery appropriate for media and adopted site assessment criteria	All samples	At least 10L per field AQ sample. LOR < Site assessment criteria (where possible)

If the RPD between duplicates is greater than the pre-determined DQI, a judgement will be made as to whether the excess is critical in relation to the validation of the data set or unacceptable sampling error is occurring in the field. For asbestos agreement, the highest concentration of the primary, duplicate or triplicate samples will be recorded as the result for that sample location, thus eliminating any non-conformance between primary, duplicate and triplicate samples.

9.3 Validation Inspections, Sampling and Analyses

9.3.1 Overview of Validation Sampling

The proposed soil validation sampling, quantification and analytical program is outlined in **Table 9.2.**

Table 9.2: Validation Sampling and Analytical Plan

Validation Area	Sampling Frequency	Analytes
Data Gaps under existing building footprints and within Car Park 14 Ramp Area	1 sample location per 20 m grid	Heavy metals TRH/BTEX PAHs OCPs/PCBs Asbestos (500mL) Minimum of 10L Asbestos Quantification per metre interval of fill
Further assessment of differing fill material types that may be encountered during civil works (if segregation and on-site re-use above the marker layer is required)	1 per 70 m^3 (historical samples able to be included), as per WA DoH 2009 stockpile materials sampling density	Asbestos (500mL) Minimum of 10L Asbestos Quantification per 70m^3
Excavations formed by removal of localised asbestos impact (if required to segregate impacted fill from non-impacted soils)	Floor: 1 per 25m^2. Wall: 1 sample per 5 linear metre. 1 sample per vertical metre.	Asbestos (500mL) 10L Asbestos Quantification per metre interval of fill (where appropriate)
Residual soils underneath stockpiles where contaminated material has been stored	1 sample per 10 m grid	Asbestos (500mL) or relevant contaminants
Excavations formed by Unexpected Finds	Base: 1 sample / 10 m grid, minimum of 2 per base	Relevant contaminants of concern

Validation Area	Sampling Frequency	Analytes
	Walls: 1 sample per 10 lineal metres per 1 m depth	
Imported Materials of VENM, if required	Minimum of 5 samples per source site	As a minimum: Heavy metals TRH/BTEX PAHs OCPs PCBs Asbestos (500mL)
Quarry Natural Materials (e.g. blue metal, sandstone, shale)	Confirmation that the material is quarried rock prior to importation, and visual confirmation.	Site Inspection required.
Imported Materials of ENM, if required	As per ENM RRO/RRE 2014	Heavy metals TRH/BTEX PAHs pH EC RTA 276 (foreign materials) Asbestos (500mL)
Waste Classification, stockpiles	1 per 25m^3 up to 100 m^3, minimum of 3. Reduced sampling density for volumes >100 m^3.	Heavy metals TRH/BTEX OCPs/PCBs PAHs Phenols Asbestos TCLP Metals and PAHs (if required)
Recycled/Recovered Products	As per relevant RRO/RRE	As per exemption Plus Asbestos (500mL)

9.3.2 Marker Layer Inspection

Visual inspection will be undertaken by the Remediation Consultant to verify the installation of the marker layer across all required areas of the site, (i.e. across all areas of fill observed, detected or assumed to contain asbestos, as per **Figure 6**). Photographic records and a survey of the marker layer installation, including vertical and lateral extents by the Contractor will be retained for inclusion in the validation report. The marker layer will be inspected where present adjacent to pile foundations to ensure the marker layer has been placed flush with the exterior of the pile.

9.3.3 Capping Layer Validation

Material to be used as a capping layer must be validated by the Remediation Consultant to be environmentally suitable, consisting of VENM, ENM, suitable on-site materials or material considered suitable for beneficial reuse via a resource recovery exemption issued by NSW EPA. Additionally, any capping layer material must not exceed the adopted site validation criteria for soils.

The capping layer must be placed at the thicknesses specified for each capping scenario as detailed in **Section 7.4.** Photographic records and a survey of the capping layer installation, which details the final thicknesses of the capping layer, including the vertical and lateral extents by the Contractor will be retained for inclusion in the validation report.

9.3.4 Imported Material Validation

Imported material source sites will be visited by the Remediation Consultant. Supporting documentation must be provided by the Contractor for imported materials to be assessed against the validation plan, relevant guidelines/exemptions and adopted site criteria. The Remediation Consultant will collect additional samples and prepare appropriate documentation for imported

materials in lieu of adequate information provided by the Contractor to ensure all material imported to site is validated.

Sampling requirements are detailed in **Table 9.2.**

An electronic database (Imported Material Spreadsheet) will be maintained by the Remediation Consultant and Contractor to keep a record of imported materials.

9.3.5 Waste Disposal Off-Site

All wastes requiring off-site disposal must be classified in accordance with *Waste Classification Guidelines* (EPA 2014). The Contractor is responsible for the lawful disposal of the classified waste to a licensed waste disposal facility lawfully able to accept the waste.

Disposal dockets for each individual off-site waste disposal load must be provided to the Principal and to the Remediation Consultant by the Contractor to demonstrate appropriate off-site disposal of waste occurred for site validation purposes.

9.4 Environmental Quality Goals for Asbestos in Soils

Environmental Quality Goals (EQGs) for asbestos in soils establish the minimum criteria for the remediation of asbestos via the preferred cap and contain strategy at the site.

The EQGs for the site are discussed below:

- Capping Depth - Capping depths must be commensurate with the proposed environmental controls for each of the capping scenarios established in **Section 7.3.2**. A minimum of 95% of surveyed depths must comply with the proposed capping depths for each capping scenario in each distinct capping area (i.e. 95% of surveyed depths complying with a single mass planting area).
- Lateral Extent of Capping - The lateral extent of capping must be consistent with the conceptual model of the distribution of asbestos in fill at the site. That is, capping must extend laterally across the extent of identified asbestos impacted gravelly clay fill or other asbestos impacted fill on the site.
- Long Term Integrity of Marker/Capping System – the marker layer must be a bright orange coloured non-woven polyester continuous filament or PET (such as non-woven geotextiles) or similar with a minimum density of approximately 150 grams per square metre (or equivalent). The marker layer must also be easily recognisable within soils (i.e., bright orange in colour), durable as a long term marker layer (i.e., >150 grams per square metre) and maintain integrity during remedial/civil works such as capping layer installation and road/building construction. The depths proposed for each capping scenario in **Section 7.3.2** allow for root growth, namely, 0.3 m for turf, 0.5 m for mass planting areas and 0.6 m for trees. Site management controls, such as inductions, ground disturbance procedures and the asbestos register will make future contractors/workers aware of the presence and meaning of the marker layer. The LTAMP, which will form part on-going site management will include the procedures for future workers conducting works below the marker layer including the safe removal and re-instatement of the marker layer.
- Capping material - Material above the marker layer extending to the final finished ground level will be required to be environmentally suitable material for human and/or ecological exposure (as appropriate). This may include: VENM sourced from on-site, imported VENM, ENM or similar material certified in accordance with an exemption issued by the NSW EPA that also meets site suitability criteria; or imported road making materials

comprising fresh quarried natural material, or material covered by a beneficial reuse order/exemption issued by the NSW EPA.

9.5 Validation Criteria Selection

The hospital land use represents a scenario that does not fall under the standard health investigation land use scenarios presented in *National Environment Protection (Assessment of Site Contamination) Measure 1999*, as amended 2013 (NEPC 2013). Schedule B7 of NEPC (2013) states "the HILs developed for the commercial/industrial land use scenario are not applicable to a site used frequently by more sensitive groups such as children (within childcare centres, hospitals and hotels) and the elderly (within hospitals, aged care facilities and hospices)." Given that children, elderly and other sensitive sub-populations (such as patients with immunosuppression and pre-existing illness) are frequents users of the site, a more sensitive land use scenario is required to be adopted. To this extent, the HIL B – standard residential land use scenario with minimal opportunities for soil access has been adopted as one of the validation criteria for all COPCs except asbestos for the site. In addition, given the potential for landscaped and public open spaces in the northern and eastern portions of the site, consideration has also been given to HIL C – Recreational and Public Open Space.

9.5.1 Soil Validation Criteria

The site is proposed to be redeveloped for ongoing use as a health services facility. As such, based on the proposed land use and in accordance with the decision process for assessment of urban redevelopment sites (EPA 2017), concentrations in the soil will be compared against published levels as presented in **Table 9.3**, sourced from the following:

- Health Investigation Levels (HILs) for residential with minimum opportunities for soil access – NEPC 2013, HIL-B;
- Health Investigation Levels (HILs) for public open space / recreational areas – NEPC 2013, HIL-C;
- Health Screening Levels (HSLs) for petroleum hydrocarbons considering potential for vapour intrusion, clay for low – high density residential (NEPC 2013);
- HSLs for asbestos contamination in soil for high density residential and recreational open space land use (HSL B and HSL C) – NEPC (2013);
- Management limits for hydrocarbons for urban residential and public open space land use – fine soil (NEPC 2013);
- Generic and derived ecological investigation levels (EILs) based on NEPC (2013) for urban residential and public open space; and
- Ecological Screening Levels (ESLs) for TPH fractions, BTEX and benzo(a)pyrene in fine soil for urban residential and public open space land use (NEPC 2013).

Given the typically clay based fill materials / soils, fine soil criteria will be used in the HSLs/ESLs and the Management Limits.

Where there are no NSW EPA endorsed thresholds the laboratory limit of reporting (LOR) has been adopted as an initial screening value for the purposes of this assessment.

Where required, results will be statistically assessed in accordance with the method summarised in **Section 9.5.2.**

9.5.2 Application of Soil Criteria

For soil to be considered as validated (i.e., not posing an unacceptable risk) all reported concentrations should ideally be below the site validation criteria. For chemical analysis the following statistical criteria shall be adopted with respect to the health based criteria:

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

Where the soil validation criteria are exceeded, further remediation and validation, or evaluation of risk, will be required.

In addition to the numerical criteria, consideration shall be given to the presence of soils that are odorous or discoloured as a result of contamination.

9.6 Material Tracking Plan

The movement of all earth based materials on the site, to the site and from the site and within the Westmead Precinct is required to be subject to a Material Tracking Plan (MTP). The MTP shall be administered by the Remediation Consultant with the provision of all required information by the Contractor.

Material tracking shall be required for all materials that are moved / excavated from a location on the site and not wholly replaced in the same locations within 12 hours of material movement (i.e., soils excavated for test pitting / assessment do not require material tracking, however all other material will require tracking).

9.6.1 Material Tracking Data

To this extent, all excavation and filling works as undertaken for the purposes of site remediation require the following information to be recorded by the Contractor on Material Tracking Forms (MTFs) and in an electronic Material Tracking Spreadsheet (MTS) and verified by the Remediation Consultant, with respect to material placement activities:

- Date (yyyy/mm/dd);
- Unique MTF identification (starting at 001);
- Site figure showing source (cut) and placement (fill);
- Estimated volume (cubic metres);
- Type of material (refer to classification scheme in **Section 9.6.2**);
- Depth of source (RL)
- Depth of placement (RL);
- Source (from) information in terms of MGA56 co-ordinates as established by site GPS and/or survey;
- Placement (to) information in terms of MGA56 co-ordinates as established by site GPS and/or survey;
- Source (from) information in terms of site feature;
- Placement (to) information in terms of site feature;

- Source (from) information in terms of Separable Portion;
- Placement (to) information in terms of Separable Portion;
- Source (from) information from off-site source site (e.g. Quarry A);
- Placement (to) information for off-site disposal (e.g., tip, EPA tracking number, docket reference);
- Reference document (where necessary, i.e. VENM / ENM classification);
- Purpose of placement (i.e. containment, surplus to site requirements etc); and
- Comments (when required).

For material that has been removed for the purposes of environmental remediation and is proposed to be moved again subsequent to the completion / validation of environmental remediation works, MTFs for the replacement of the material shall make reference to the initial MTFs generated by the excavation of the materials for remediation. As part of the validation of the material tracking forms, mass / material balances shall be assessed at each stage where additional material tracking forms are generated for particular site material.

It is the responsibility of the Contractor to ensure the MTF(s) are completed and submitted to the Remediation Consultant at the end of each day's work. The Remediation Consultant has ownership of the MTFs on receipt of all the necessary information from the Contractor.

The Remediation Consultant is required to review the submitted MTFs and to investigate/resolve any discrepancies. Following this review, a copy of the MTFs will be forwarded to the Principal. Ideally this would occur within two days of the Remediation Consultant verifying the MTFs from the Contractor.

The MTP is considered an active process and revisions of the MTP will be undertaken to improve the MTFs and MTS to ensure comprehensive and efficient material tracking.

9.6.2 Material Tracking Classifications

Material to be moved on the site shall generally be tracked as per one of the following classifications:

- Asbestos impacted fill moved on-site (i.e., below site criteria) to temporary stockpiles with unique stockpile identifier labels prior to final placement under the marker layer;
- Asbestos impacted fill moved on-site (i.e., below site criteria) from excavations or temporary stockpiles and placed under the marker layer;
- Validated soils moved on-site;
- Relocation of fill/natural materials across the Westmead Precinct to temporary stockpiles or direct placement under the marker layer;
- Off-site disposal of waste material (with classification);
- Surplus soils as ENM;
- Surplus soils as VENM;
- Imported natural quarried rock products;
- Imported soils as VENM;
- Imported soils as ENM; and

- Imported soils under exemption.

Review of these general classification will be undertaken throughout the remedial works to ensure the classification remain appropriate.

9.7 Validation Reporting

9.7.1 Validation Report

The validation report shall be prepared by the Remediation Consultant written in general accordance with *Contaminated Land Guidelines: Consultants Reporting on Contaminated Land*, NSW EPA (EPA 2020).

The validation report should contain information including:

- Results of previous investigations conducted at the site;
- Details of the remediation works conducted;
- Information demonstrating that the objectives of the RAP have been achieved, in particular the validation sample results and assessment of the data against both the pre-defined data quality objectives and the remediation acceptance (validation) criteria;
- Information demonstrating compliance with appropriate regulations and guidelines;
- All material tracking data;
- Any variations to the strategy undertaken during the implementation of the remedial works;
- Details of any environmental incidents occurring during the course of the remedial works and the actions undertaken in response to these incidents; and
- Other information as appropriate, including any requirements for ongoing monitoring / management.

9.7.2 Long Term Asbestos Management Plan – Onsite Containment Option

In addition to the requirements of the validation plan, if the proposed remediation strategy is for on-site containment, this will require long term management following completion of the redevelopment.

To this end, a LTAMP will be prepared by the Remediation Consultant to detail the ongoing management and monitoring requirements for the site, however the precise nature and extent of management requirements will not be known until remediation/management works are conducted and validation data obtained. The LTAMP will be prepared following the completion of the Validation Report for the site.

The LTAMP is required to document the following elements:

- A statement of the objectives of the LTAMP – i.e., to ensure continued suitability of the site following remediation;
- Identification of residual environmental contamination issues at the site that require ongoing management/monitoring to meet the LTAMP objectives, including the type of contamination and location within the site (including a survey plan prepared by a registered surveyor);
- Documentation of environmental management measures which have been implemented to address the identified environmental issues at the site;

- Description of management controls to limit the exposure of site users to known areas of contamination to acceptable levels;
- Description of responsibilities for implementing various elements of the provisions contained in the LTAMP;
- Timeframes for implementing the various control/monitoring, etc. elements outlined in the LTAMP;
- Environmental monitoring and reporting requirements (if required) for the future management of environmental impact underlying the site including:
    - Appropriate monitoring locations and depth within and down-gradient of any residual contamination;
    - Relevant assessment criteria to be used in evaluating monitoring results;
    - Frequency of monitoring and reporting;
    - Process for reviewing monitoring data and how decisions will be made regarding the ongoing management strategy;
    - The length of time for which monitoring is expected to continue; and
    - The regulatory authorities involved and the management inputs required from each;
    - the integration of environmental management and monitoring measures for soil and groundwater;
    - Health and safety requirements for particular activities;
    - A program of review and audits;
    - The provisions in the LTAMP are feasible (i.e., able to be implemented) and able to be legally enforceable (i.e., a mechanism exists, such as development consent conditions, to give the plan a basis in law);
    - The relevant consent authority is satisfied that the inclusion of a development consent condition relating to the implementation of the LTAMP is acceptable; and
- Corrective action procedures to be implemented where LTAMP assessment criteria are breached.

10. Site Management Plan

The site management plan is largely based on the Parramatta City Council (PCC) *Contaminated Land Policy*, *Version 1* (PCC 2017). This section contains procedures and requirements that are to be implemented as a minimum requirement during the remedial works at the site.

10.1 Hours of Operation

It is understood that the hours of operation for remedial work may vary from PCC 2017 typical hours of operation and is subject to approval.

PCC 2017 typical hours of operation for remedial works are:

- Monday to Friday: 7am to 6pm.
- Saturday: 8am-1pm.
- Sunday and public holidays: No work permitted.

10.2 Soil and Water Management

All works shall be conducted in general accordance with the NSW Department of Housing Blue Book – *Managing Urban Stormwater – Landcom*, 2004, which outlines the general requirements for the preparation of a soil and water management plan.

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

To prevent the migration of impacted soil off site, silt fences shall be constructed at the down-gradient site boundaries by the Contractor. Any material which is collected behind the sediment control structures shall be treated by one of the following options:

- Placement under the capping layer if appropriate; or
- Removal off site to a licensed waste facility subsequent to waste classification.

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

10.3 Stockpile Management

All materials stockpiled onsite will be managed by the Contractor. Unique numbers will be provided for each stockpile, the source of the stockpile, its estimated volume, material characterisation and its location onsite (via GPS) will also be recorded consistent with the MTP provided as **Section 9.6**.

The following procedures will be implemented by the Contractor:

- No stockpiles of soil or other materials shall be placed on footpaths or nature strips unless prior Council approval has been obtained;
- All stockpiles of soil or other materials shall be placed away from drainage lines gutters or stormwater pits or inlets;
- All stockpiles of soil or other materials likely to generate dust or odours shall be covered (where practical);

- All stockpiles of chemically contaminated soil shall be stored in a secure area and be covered if remaining more than 24 hours (where practical); and
- All stockpiles of asbestos contaminated soils shall be kept damp and covered to minimise potential fibre release, and if left for more than 24 hours, be stored in a secure area (where practical).

10.4 Site Access

All vehicle access to the site shall be stabilised to prevent the tracking of sediment onto the roads and footpaths. All materials must be removed from the roadway on a daily or as required basis. Soil washings from wheels shall be collected and disposed of in a manner that does not pollute waters. Any personnel, equipment, plant or vehicles that enter an asbestos works zone must be appropriately decontaminated prior to exiting.

10.5 Excavation Pump-out

Any excavation pump-out water shall be sampled by the consultant for analysis for total suspended solid concentrations, turbidity, pH and the identified contaminants of concern prior to release to stormwater with permission from Council, sewer (only if trade waste permit obtained) or licensed liquid waste contractor.

Excavation pump out from trenches is not anticipated with the general remediation works given the general remedial plan of minimising ground disturbance and groundwater being at a depth of approximately 5 m bgs. Pump-out following accumulation of surface water is the most likely scenario for water disposal.

10.6 Landscaping / Rehabilitation

All exposed soils shall be progressively stabilised and revegetated or resealed on the completion of remedial works.

10.7 Noise

Remediation work shall not give rise to 'offensive noise' as defined in the *Protection of the Environment Operations Act 1997*. All equipment and machinery associated with the remediation work shall be operated by the Contractor in accordance with the POEO Act 1997 and its *Noise Control Regulation 2017*.

The remediation works shall comply with the NSW EPA's *Environmental Noise Control Manual* for the control of noise from construction sites which specifies that:

- For a cumulative period of up to 4 weeks, the noise level as measured by the LA10 (15 minute) emitted by the works to specific residences should not exceed the background noise level, LA 90 (15 minute), by more than 20dB(A).

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

10.8 Vibration

The use of plant and machinery by the Contractor shall not cause vibrations to be felt or capable to be measured at any premises.

10.9 Air Quality

During remedial works, dust emissions and any odours will be confined within the site boundary. This will be assessed by a program of air monitoring undertaken by the consultant for all remediation works and implemented by air emission controls as required by the Contractor. Air monitoring requirements are summarised in this section.

10.9.1 Air Monitoring

Real-time Exposure Monitoring

Preference is given for all environmental monitoring to be undertaken using real time methods. If required, the Remediation Consultant can monitor works on the site by the use of a DustTrak real-time aerosol monitor. A sufficient number of sample locations will be monitored throughout the remediation works as assessed by the Remediation Consultant.

The consultant can advise the Principal and Contractor when the time averaged DustTrak particulate measurement exceeds 0.05 mg/m^3. WA DoH (2009) reports that this level is protective of potential asbestos fibre exposures. Further, this level is well below the inspirable dust inhalation standard, and is further protective of potential respirable dust impacts at the site boundary. The remediation works shall not comprise excavation / handling of silica rich materials, and maintenance of particulates at this level is considered to be similarly protective of potential silica exposures.

If dust levels exceed the adopted criteria of 0.05 mg/m^3, the Principal and Contractor will be notified, and works will require to be modified to reduce dust emissions to below the adopted criteria. All exceedances will be required to be "closed-out" by re-sampling at the exceedance location subsequent to implementation of modified work routines (such as increased dust controls).

Occupational Asbestos Monitoring

Airborne asbestos fibre monitoring will be conducted by the Certified Occupational Hygienist (COH) whom also must be a Licensed Asbestos Assessor (LAA, as per SafeWork NSW requirements) in accordance with the requirements of the National Occupational Health and Safety Commission (NOHSC*) Asbestos Code of Practice and Guidance Notes*, in particular the Guidance note for the estimation of airborne asbestos dust [NOHSC 3002:2005]. The COH shall undertake airborne asbestos fibres monitoring at a minimum of four static locations daily during remediation works that will disturb asbestos impacted or contaminated materials. Monitoring locations will include site perimeter locations and downwind locations. Wind information available from the Bureau of Meteorology (BOM) for the nearest weather stations will be used to determine common prevailing winds in the area.

Air filters shall be analysed by a National Accreditation Testing Authority (NATA) accredited laboratory and results shall be required to be below 0.01 fibres/mL. All detections of fibres shall be further analysed by scanning electron microscope (SEM) to confirm the fibres are asbestos.

If respirable asbestos fibres are confirmed and present between 0.01 and 0.02 fibres/mL, the following controls must be implemented by the licensed asbestos removalist, in accordance with *Code of Practice: How to Safely Remove Asbestos,* SafeWork NSW (SWNSW 2019a);

- Review control measures;
- Investigate the cause; and
- Implement controls to eliminate or minimise exposure and prevent further release.

If respirable asbestos fibres are confirmed and present above 0.02 fibres/mL, the following controls must be implemented by the licensed asbestos removalist, in accordance with SWNSW 2019a;

- Stop removal work;
- Notify SafeWork NSW by phone, then by fax or written statement that work has ceased;
- Investigate the cause;

- Implement controls to eliminate or minimise exposure and prevent further release; and
- Do not recommence removal work until further air monitoring is conducted and fibre levels are detected below 0.01 fibres/mL.

A daily report air monitoring report will be prepared documenting the previous/same days airborne asbestos fibre air monitoring results. This report will be made available to all relevant stakeholders, including but not limited to:

- Site workers;
- Hospital staff;
- Neighbouring facilities; and
- Unions.

10.10 Dust Control

During the remedial works, as necessary, excavation areas will be wetted down using a water spray to minimise the potential for dust to be generated by the Contractor. A wetting or bonding agent may be used to further bind the soil to minimise asbestos fibre release.

All asbestos impacted soils must be wetted (but not flooded) prior to and during excavation and movement of the soils. To control dust in significant areas of exposed asbestos contaminated fill, industrial misting fans, placed at the outer extents of remedial/excavation areas, must be utilised by the Contractor.

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

During all remedial works, dust screens will be erected around the perimeter of the site by the Contractor. Where significant fugitive emissions are observed from asbestos inspection / treatment pads, or bioremediation areas, these areas shall be wetted and/or covered by the Contractor.

Meteorological conditions will be monitored by the Remediation Consultant and Contractor. Remedial work will be stopped or modified where meteorological conditions are adverse (i.e. dry conditions and strong winds towards sensitive receptors).

Plant and vehicles should limit their speed when working within asbestos exclusion zones and only traverse wetted haul roads. Only essential vehicles are permitted to traverse the asbestos exclusion zone.

10.11 Staging of Asbestos Disturbance Works

Where practicable, asbestos disturbance works will be conducted exclusively (i.e. with no other dust generating earthworks occurring simultaneously) with the application of a marker layer and interim capping layers as soon as practicable subsequent to site levels being achieved.

The objective of this is to separate all potential asbestos and non-asbestos dust generating activities so appropriate levels of control can implemented for each type of activity.

10.12 Odour / Volatile Emissions Control

No odours should be detectable at the site boundary and volatile emissions of other potentially volatile substances shall be controlled. Appropriate actions will be taken by the Contractor to reduce the odours, which may include: increasing the amount of covering of excavations / stockpiles; mist sprays; odour suppressants; and maintenance of equipment.

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

10.13 Transport of Material Offsite/Across the Westmead Precinct

Trucks will be loaded in designated areas. The Contractor shall ensure that there is no material tracked out onto the street and that the load is securely covered. In addition, all site vehicles must leave the site in a forward direction.

The Contractor shall also log truck movements and approximate volume, via registration number and consignment number (where applicable), into and out of the site including material relocated across the Westmead Precinct.

All appropriate road rules shall be observed, and state roads will be selected as far as practicable over local roads when deciding on the transport route to the off-site material disposal location.

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

10.14 Hazardous Materials

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

In particular, any hazardous wastes will be transported by a NSW EPA licensed transporter.

10.15 Offsite Disposal of Contaminated Soil

All soils will be classified, managed and disposed in accordance with the *Waste Classification Guidelines* (EPA 2014). Documentary evidence for all soil disposals shall be kept for inclusion in the Validation Report/s.

It is a requirement under the POEO Waste Regulation to record the movement of all loads of more than 100 kg of asbestos waste or more than 10 m^2 of asbestos sheeting. Each load will be assigned a unique consignment code to allow NSW EPA to monitor their movement from site of generation to disposal.

In addition, the *proximity principle*, under the POEO Waste Regulation, makes it an offence to transport waste generated in NSW by motor vehicle for disposal more than 150 kilometres from the place of generation, unless the waste is transported to one of the two nearest lawfully disposal facilities to the place of generation.

10.16 Imported Fill

Any materials imported on site by the Contractor to re-establish ground levels or to be applied as a capping layer must be validated, environmentally suitable material (i.e., VENM, ENM or other, as described in **Section 9.2.5**). Additionally, the imported fill should also be compatible with required geotechnical constraints and the existing soils characteristic for site drainage purposes.

10.17 Groundwater

It is anticipated that no dewatering will be required for the remediation works. If dewatering is required as part of the remediation works, a licence shall be applied for from Water NSW for approval to extract groundwater. Details on the analyses and disposal of dewatering water is provided in **Section 10.5.**

10.18 Site Signage and Contact Numbers

A sign/s shall be displayed adjacent to the site access point/s throughout the duration of the works with the contact details of the Contractor and project manager as provided and maintained by the Contractor.

10.19 Site Security

The remedial areas shall be secured against unauthorised access by means of an appropriate fence or barricade by the Contractor. All persons working in asbestos remedial areas must be inducted, have undertaken required training and don appropriate PPE. The access gates will be locked at all times when remedial works are not occurring.

10.20 Community Consultation

Owners and / or occupants of adjacent premises and across the road from the site will be notified at least seven days prior to the commencement of preparation for the remediation works. As a minimum the notification shall include the details of an appropriate contact person.

Hospital staff and contractors will be notified at least seven days prior to the commencement of preparation for the remediation works via communications notices by Westmead Hospital.

11. Environmental and Health and Safety Management

11.1 Environmental Management

11.1.1 Construction Environmental Management Plan

Prior to commencement of remediation works on the site, a CEMP shall be prepared by the Contractor, which documents the environmental monitoring and management measures required to be implemented during the remediation and construction related activities associated with the construction of the site.

The CEMP shall address each of the nominated items in **Section 11.1.2** and shall include the contingency plan, referred to in **Section 8** above.

11.1.2 Required Elements/Procedures

An assessment of the proposed activities and the associated elements required to be incorporated into the CEMP is provided in **Table 11.1**. The CEMP is required to address each of the required elements and procedures in full detail and to include detailed monitoring processes and procedures, corrective actions and reporting requirements.

Table 11.1: Required Elements of the CEMP

Element	Specific Minimum Requirements to be included in CEMP
1. Dust and Airborne Hazard Control	Real time airborne dust analyser monitoring. Asbestos air monitoring. Provisions for dust control based on monitoring results. Staging of asbestos works. Notification of surrounding buildings and implementation of control measures (e.g., closure of air vents or additional monitoring for asbestos fibres).
2. Flora and Fauna	As appropriate and advised by flora and flora consultant.
3. Heritage/Archaeological	In accordance with relevant heritage/archaeological studies.
4. Visual Impacts	Visual monitoring at site boundary Specific colour requirements for various controls/measures, including PPE (e.g., navy coveralls may be a suitable option in cooler conditions)
5. Emergency Response	As appropriate. Procedures required for spill incident response including material storage breach.
6. Noise Control	Hours of operation, consistent with the consent conditions. Boundary monitoring at commencement of work site activities with potential for environmental noise emissions. Potential noise monitoring at nearest receptors. Procedures for control and management of noise emissions, as appropriate (e.g., restricted hours).
7. Traffic	Controls on vehicle movements on public roads/internal Westmead Precinct roads. Controls on transport in asbestos exclusion zones
8. Protection of Adjoining Structures	As appropriate and advised by structural engineer.
9. Odour Control	Procedures for management of potentially odorous works.
10. Handling of Contaminated Soil and Groundwater	Soil and water management (stockpiling, site access, excavation pump out, reinstatement).
11. Soil Storage/Placement Areas	Soil and water management (stockpiling, site access, excavation pump out, reinstatement). Bunding. Heavy vehicle/personnel decontamination. Interim storage requirements for materials requiring later treatment. Site drainage requirements, incorporating clean/dirty areas and modifications to existing surface water and drainage controls beneath retained pavements.

Element	Specific Minimum Requirements to be included in CEMP
	Monitoring as required.
12. Sediment Control	Bunding. Collection/treatment/handling impacted sediments.
13. Operation of Site Office	As appropriate.
14. Asbestos Works	Required notifications, permits, signage and exclusion zones. Required personal (e.g. Class A removalist, licences asbestos assessor). PPE and decontamination. Staging of asbestos and non-asbestos works.
15. Environmental Monitoring	Monitoring of dusts, noise, odour and fibres. Monitoring as required for vibration and water releases. Inspection checklists and field forms.
16. Environmental Criteria	Soil and water criteria as sourced from RAP.
17. Material Classification	As detailed in this RAP. Materials tracking, including QA/QC inspection and sampling.
18. Community Relations Plan	Refer to CHW Stage 2 project specific communication protocols, incorporating nomination of specific contact persons & details and requirements for communications/response register.
19. Incident Reporting	As appropriate, including standard form/checklist.
20. Security and Signage	Secure site perimeter. Site boundary signage. Asbestos exclusion zone signage.
21. EMP Review	As appropriate.
22. Training	As appropriate. Asbestos awareness training for all workers.
23. Contact Details	Company/personnel details, including names/phone numbers for: - Principal Contractor - Site Auditor - Remediation Consultant - Remediation Contractor - WHS and Environmental Compliance

11.2 Health and Safety Management

A Work Health & Safety Management Plan (WHSP) shall be prepared by the Contractor prior to commencement of remediation works on the site. The Plan shall contain procedures and requirements that are to be implemented as a minimum during the works.

The objectives of the WHSP are:

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

These objectives will be achieved by:

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

12. Regulatory Approvals / Licensing

12.1 State Environment Planning Policy (Resilience and Hazards) 2021 – Chapter 4 Remediation of Land

The proposed remediation works are considered to be classified as 'Category 2' Remediation Works – i.e., not requiring consent. The notification requirements of the Resilience and Hazards SEPP require the consent authority to be notified 30 days before Category 2 remediation works commence, providing the consent authority with the information needed to verify the work is not Category 1 by reference to the following criteria:

- The work is not designated development under schedule 3 of the *Environmental Planning and Assessment Regulation 2000* (EPA&A Regulation) or under a planning instrument;
- The work proposed is not on land identified as critical habitat under the *Biodiversity Conservation Act 2016*;
- The remediation work is not likely to have a significant effect on threatened species, populations, ecological communities or their habitats;
- The work is not proposed in an area or zone identified in a planning instrument as being an area of environmental significance such as scenic areas or wetlands; and/or
- The work does not require consent under another SEPP or regional environmental plan.

In addition, the notification will also include relevant contact details and a proposed remediation schedule. Notice is also required to be given to the consent authority within 30 days of remediation works completion.

12.2 Protection of the Environment Operations Act 1997

The proposed remediation/validation activities are not required to be licensed under the POEO Act since the works do not involve:

- Treatment otherwise than by incineration and storage of more than 30 000 cubic metres of contaminated soil originating exclusively from the site, or
- Disturbance of more than an aggregate area of 3 hectares of contaminated soil originating exclusively from the site.

12.3 Protection of The Environment Operations (Waste) Regulation 2014

The regulations make requirements relating to non-licensed waste activities and waste transporting. The proposed works on the site will not require to be licensed.

Section 42 of the Regulation stipulates special transportation, reporting, re-use and recycling requirements relating to asbestos waste and must be complied with regardless whether the activity is licensed.

The requirements for the transportation of asbestos waste include:

- Bonded asbestos material must be securely packaged at all times;
- Friable asbestos material must be kept in a sealed container;
- Asbestos-contaminated soils must be wetted down; and
- All asbestos waste must be transported in a covered, leak-proof vehicle.

The transporter of asbestos waste must cause the following information to be given to the EPA prior to the transportation of asbestos waste loads:

- Source site details including address, name and contact details;
- Date of proposed transportation commencement;
- Name, address and contact details of disposal site; and
- Approximate weight of each class of asbestos in each load;

The transporter of asbestos waste must ensure the following information is given to the disposal site before or at delivery:

- Unique consignment code issued by EPA in relation to that load; and
- Any other information specified in the Asbestos and Waste Tyres Guidelines.

The requirements relating to the off-site disposal of asbestos waste are as follows:

- Asbestos waste in any form must be disposed of only at a landfill site that may lawfully receive the waste;
- When asbestos waste is delivered to a landfill site, the occupier of the landfill site must be informed by the person delivering the waste that the waste contains asbestos;
- When unloading and disposing of asbestos waste at a landfill site, the waste must be unloaded and disposed of in such a manner as to prevent the generation of dust or the stirring up of dust; and
- Asbestos waste disposed of at a landfill site must be covered with virgin excavated natural material or other material as approved in the facility's environment protection licence.

Section 48 of the Regulation requires that wastes are stored in an environmentally safe manner. It also stipulates that vehicles used to transport waste must be covered when loaded.

It is noted that the above requirements of the waste regulatory framework apply when waste materials leave a site. As detailed in **Section 6.6**, material movement across the Westmead Precinct are not considered to be waste materials because the material is not considered to be surplus to site requirements and is not leaving the Westmead Precinct. Thus, there is no need to assign a waste classification to the materials.

12.4 Waste Classification Guidelines (EPA 2014)

All wastes generated and proposed to be disposed off-site shall be assessed, classified and managed in accordance with this guideline. Where wastes require immobilisation prior to off-site disposal (to reduce waste classifications) an immobilisation approval shall be sought in accordance with Part 2 of this guideline. Immobilisations are only anticipated to be required with unexpected finds that cannot be retained on site and cannot be disposed directly offsite to a licensed facility.

12.5 Parramatta City Council Contaminated Land Policy (PCC 2017)

The Parramatta City Council Contaminated Land Policy details the requirements of the council in regard to contaminated lands. The requirements provided in **Section 10** are largely based on the guidance provided in PCC 2017.

12.6 Asbestos Removal Regulations and Codes of Practice

The remediation of fill containing asbestos will be managed in accordance with the Work Health and Safety Act (2011), WHS Regulation, SafeWork NSW guidelines, '*Code of Practice: How to Safely Remove Asbestos* (SWA 2020a), '*Code of Practice: How to Manage and Control Asbestos in the Workplace'* (SWA 2020b) and the NSW EPA (2014) Waste Classification Guidelines.

Excavation, onsite remediation and removal of friable asbestos contaminated soils are required to be conducted by a Class A licensed Asbestos Removal contractor.

All airborne asbestos fibre monitoring works must be undertaken by a COH / LAA, in accordance with SafeWork NSW requirements.

Before starting the affected works, the Contractor is required to obtain a site-specific permit approving the asbestos works from SafeWork NSW. A permit will not be granted without a current licence and the permit application must be made at least seven days before the work is due to commence.

12.7 Guidelines of the Duty to Report Contamination under the Contaminated Land Management Act 1997 (EPA 2015)

The EPA 2015 guidelines present notification triggers specific to asbestos in, or on, soil. The site is considered to have friable asbestos present in or on soil on the land and to have a level of asbestos (% w/w) above the HSL for FA/AF in NEPC 2013. However, it is understood that there have been no detections of airborne asbestos fibres above 0.01 fibres/mL during airborne asbestos fibre monitoring conducted by or known to, the remediation consultant across other developed portions of Westmead Hospital. Based on the current data, it is considered that there is not a requirement for notification of the site to the EPA for asbestos contamination.

13. Communication with Stakeholders

Communication will be maintained in accordance with Health Infrastructure related communication plans throughout the work with key stakeholders of the project.

Communication will also be maintained throughout the work via:

- Daily pre-starts;
- Weekly toolbox talks;
- Information and training awareness sessions as required;
- Daily airborne asbestos fibre monitoring reports; and
- Community consultation.

14. Conclusions and Recommendations

With reference to the limitations in **Section 15**, the following conclusions and recommendations are provided.

14.1 Conclusions

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

Subject to the successful implementation of the measures described in this RAP and the recommendations below, it is concluded that the risks posed by contamination can be managed in such a way as to be adequately protective of human health and the environment, such that the site can be made suitable for the proposed hospital use.

14.2 Recommendations

It is recommended that the processes outlined in this RAP be implemented and that the following documentation be developed and implemented to ensure the risks and impacts during remediation works are controlled in an appropriate manner:

- A Construction Environmental Management Plan (CEMP), to document the monitoring and management measures required to control the environmental impacts of the works and ensure the validation protocols are being addressed; and
- A Work Health and Safety Management Plan (WHSP) to document the procedures to be followed to manage the risks posed to the health of the remediation workforce.

The CEMP and WHSP will require to be cognisant of the potential occurrence and storage / handling of asbestos contaminated soils on the site.

Upon completion of the remediation works, if containment is considered the most suitable option, the Validation Report and LTAMP for materials retained beneath the marker and capping layer are required to be submitted by the Remediation Consultant for certification that the site is suitable for the proposed uses, subject to implementation of the LTAMP. If offsite disposal is considered the most suitable option, the Validation Report will document the remediation and validation of the site, with no requirement for an LTAMP.

15. 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.

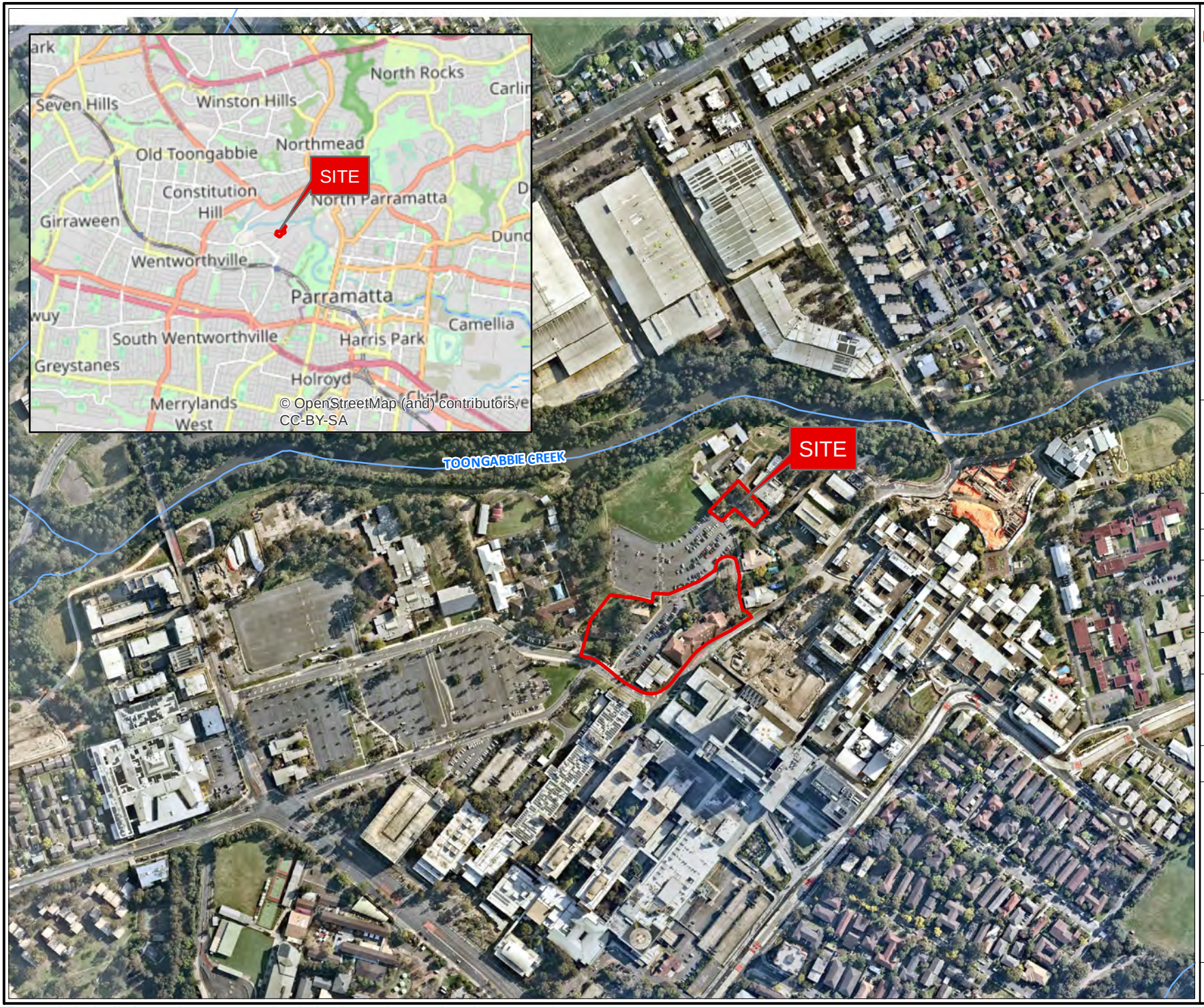
Sampling and chemical analysis of environmental media is based on appropriate guidance documents made and approved by the relevant regulatory authorities. Conclusions arising from the review and assessment of environmental data are based on the sampling and analysis considered appropriate based on the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

JBS&G

Job No: 60807	
Client: Health Infrastructure	
Version: R02 Rev 5	Date 16/09/2022
Drawn By: LJ	Checked By: MH
Scale 1:6,000	

0 75 150

metres

Coord. Sys. GDA 1994 MGA Zone 56

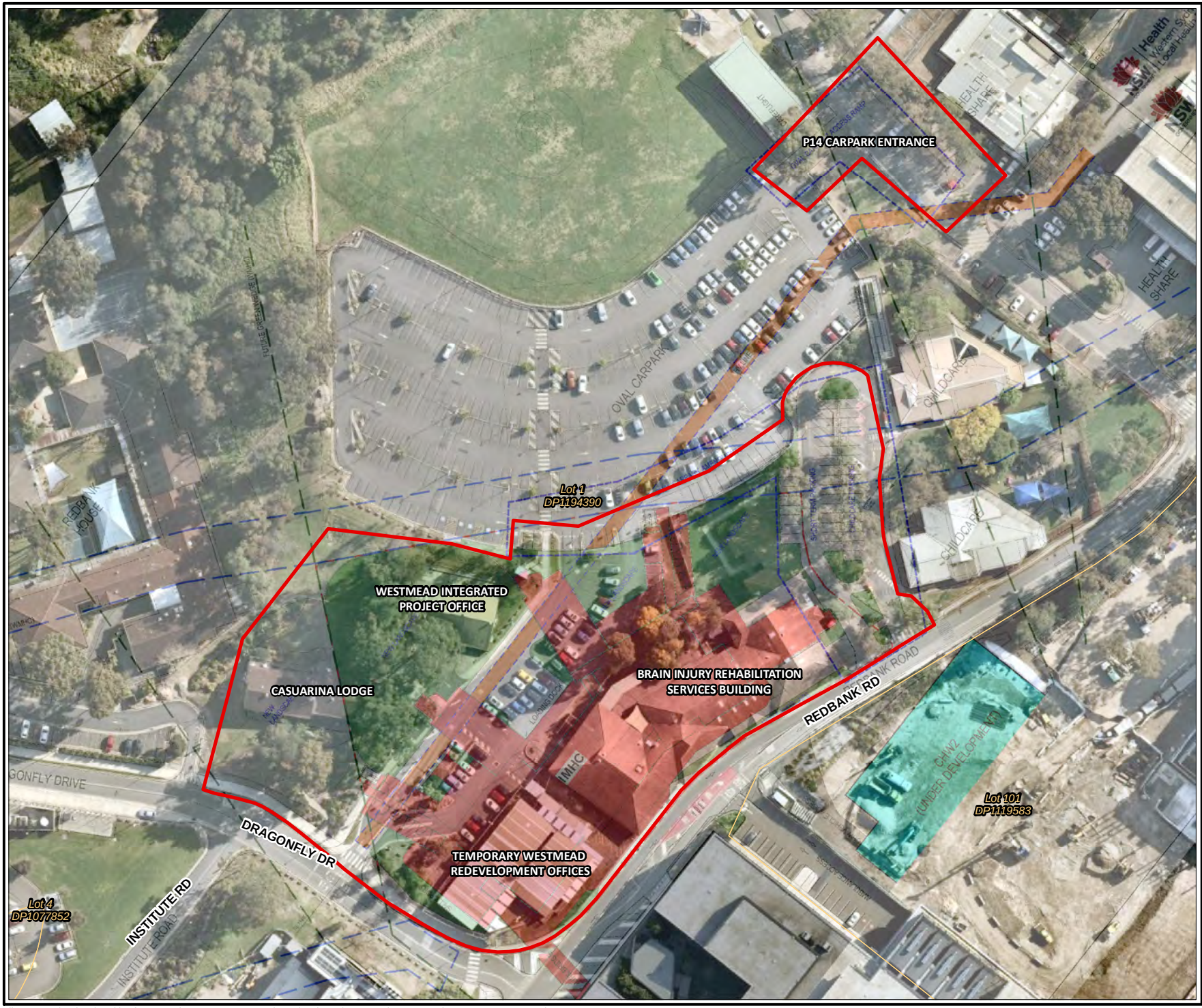
Westmead Childrens Hospital

Corner of Dragonfly Drive and Redbank Road

SITE LOCATION

FIGURE 1

File Name: N:\Projects\Health Infrastructure\60807 - CWMHSR and BIRS\GIS\Maps\R02 Rev 5\60807_01_SiteLocation_R02_Rev5.mxd
Reference: Nearmap www.nearmap.com 20220912



Legend:

- Approximate Site Boundary
- NSW Cadastre (DFSI, 2021)
- New IMHC Building Footprint
- Landscaping

JBS&G

Job No: 60807	
Client: Health Infrastructure	
Version: R02 Rev 5	Date 16/09/2022
Drawn By: LJ	Checked By: MH
Scale 1:1,400	

0 10 20
metres

Coord. Sys. GDA 1994 MGA Zone 56

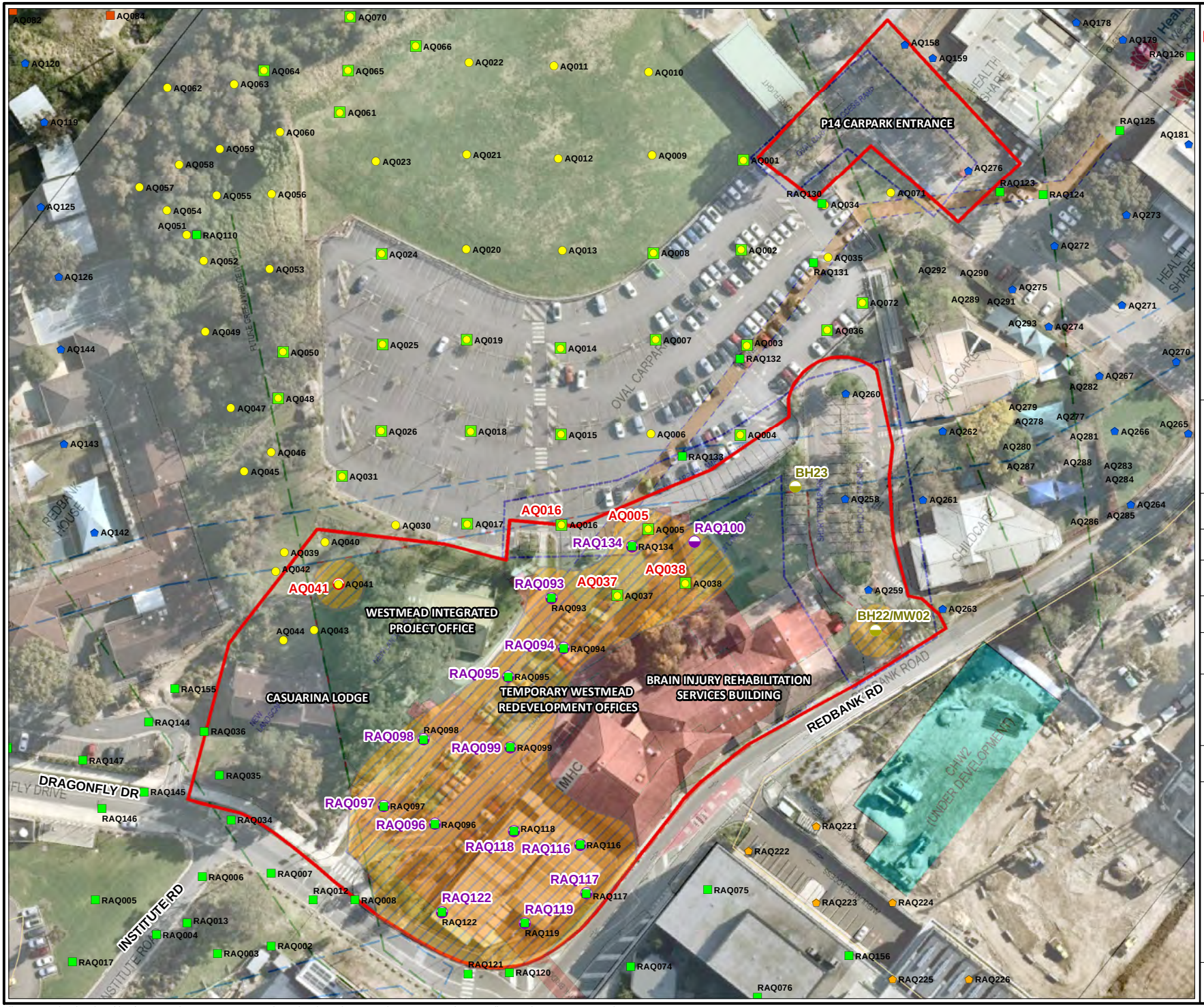
Westmead Childrens Hospital

Corner of Dragonfly Drive and Redbank Road

SITE LAYOUT

FIGURE 2

File Name: N:\Projects\Health Infrastructure\60807 - CWMHSR and BIRS\GIS\Maps\R02 Rev 5\60807_02_SiteLayout_R02_Rev5.mxd
Reference: Nearmap www.nearmap.com 20220912



Legend:

- Approximate Site Boundary
- NSW Cadastre (DFSI, 2021)

Historical Sample Locations

- JBSG, 2014
- JBSG, 2015
- JBSG, 2019
- 2014a | 2015a
- Sample Location 2014a
- Sample Location 2015a
- Sample Location 2015c
- Sample Location 2016a
- Sample Location 2016b
- Asbestos Identified Soils
- New IMHC Building Footprint
- Landscaping

JBS&G

Job No: 60807

Client: Health Infrastructure

Version: R02 Rev 5	Date 16/09/2022
Drawn By: LJ	Checked By: MH

Scale 1:1,350

0 15 30

metres

Coord. Sys. GDA 1994 MGA Zone 56

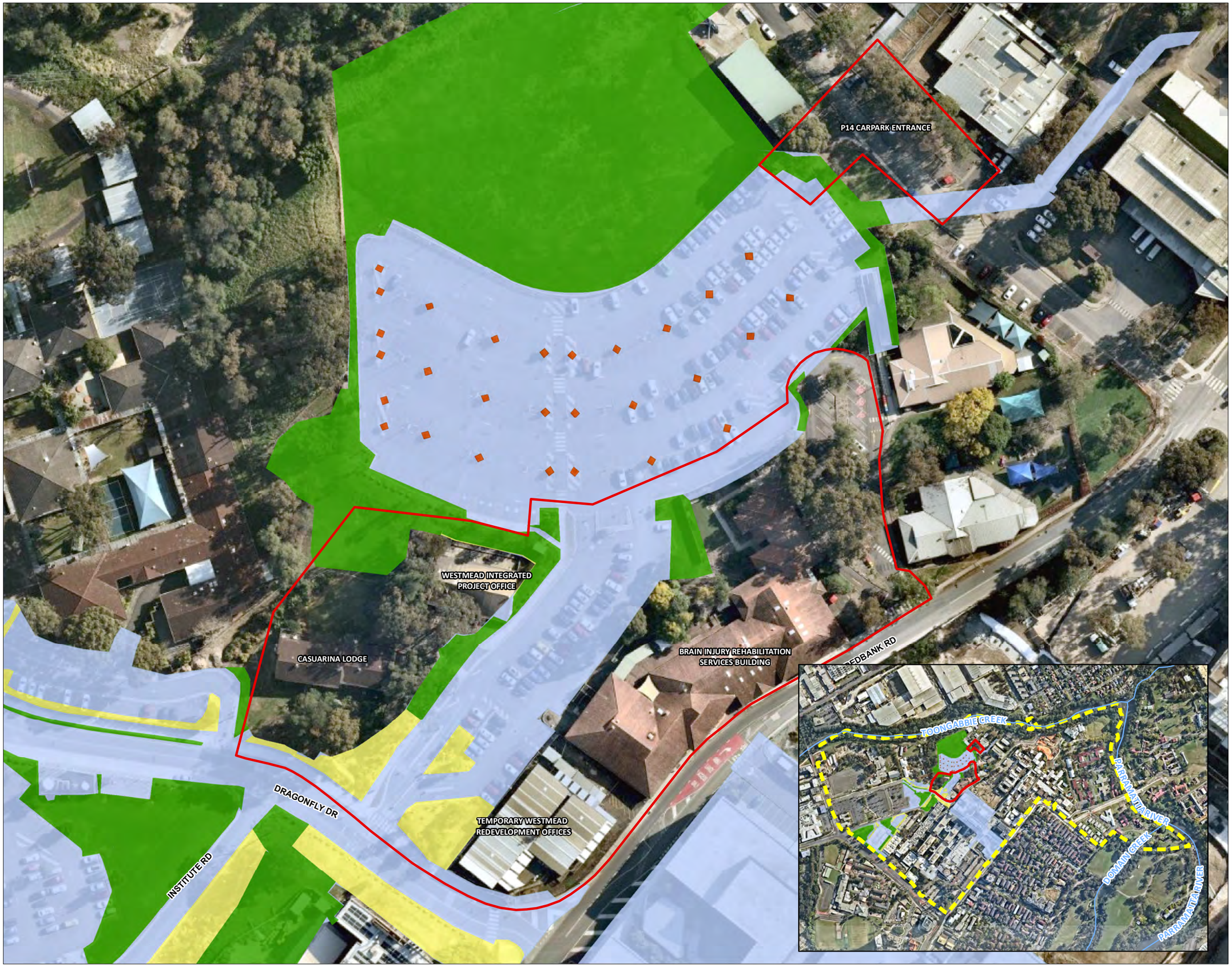
Westmead Childrens Hospital

Corner of Dragonfly Drive and Redbank Road

PREVIOUS SAMPLING LOCATIONS

FIGURE 3

File Name: N:\Projects\Health Infrastructure\60807 - CWMHSR and BIRS\GIS\Maps\R02 Rev 5\60807_03_PreviousSamplingLocations_R02_Rev5.mxd
Reference: Nearmap www.nearmap.com 20220912; Site Plan: 0816_JS_IA250300-NEWB-AR-DRG-0011(1)PROPOSED SITE



Legend:

- Approximate Site Boundary
- Approximate Boundary - Westmead Redevelopment Project Site

Approximate Extent of Remediation - Marker and Capping Layer

- Landscaped, bright orange geo-textile and sub-base material with 600 mm capping
- Landscaped, bright orange geo-textile and sub-base material with 500mm capping
- Turf, bright orange geo-textile and 300 mm capping
- Asphalt or concrete slab, bright orange geo-textile and sub-base matial (capping depth varies)

JBS&G

Job No: 60807	
Client: Health Infrastructure	
Version: R02 Rev 5	Date: 16-Sep-2022
Drawn By: LJ	Checked By: MH

Scale 1:1,000

0 10 20
metres

Coord. Sys. GDA 1994 MGA Zone 56

Westmead Childrens Hospital

Corner of Dragonfly Drive and Redbank Road

PREVIOUS REDEVELOPMENT WORKS – ASBESTOS FILL CAPPING ARRANGEMENTS

FIGURE 4

File Name: N:\Projects\Health Infrastructure\60807 - CWMHSR and BIRS\GIS\Maps\R02 Rev 5\60807_04_Previous Redevelopment Works – Asbestos Fill Capping Arrangements_R02_Rev5.mxd
Reference: Nearmap www.nearmap.com 20220912



Legend:

- Approximate Site Boundary
- NSW Cadastre (DFSI, 2021)
- Data Gap Investigation Extent
- Non-Asbestos COPC Data Gap
- Proposed Data Gap Sampling Location

JBS&G

Job No: 60807	
Client: Health Infrastructure	
Version: R02 Rev 5	Date 16/09/2022
Drawn By: LJ	Checked By: MH
Scale 1:1,400	

0 15 30
metres

Coord. Sys. GDA 1994 MGA Zone 56

Westmead Childrens Hospital

Corner of Dragonfly Drive and Redbank Road

DATA GAP UNDERLYING EXISTING BUILDINGS

FIGURE 5

File Name: N:\Projects\Health Infrastructure\60807 - CWMHSR and BIRS\GIS\Maps\R02 Rev 5\60807_05_DataGaps_Buildings_R02_Rev5.mxd
Reference: Nearmap www.nearmap.com 20220912; Site Plan: 0816_JS_IA250300-NEWB-AR-DRG-0011(1)PROPOSED SITE



Legend:

Approximate Site Boundary

Approximate Extent of Remediation

Approximate Extent of Asbestos Contaminated Fill

JBS&G

Job No: 60807

Client: Health Infrastructure

Version: R02 Rev 5	Date 16/09/2022
Drawn By: LJ	Checked By: MH

Scale 1:1,350

0 15 30

metres

Coord. Sys. GDA 1994 MGA Zone 56

Westmead Childrens Hospital

Corner of Dragonfly Drive and Redbank Road

EXTENT OF REMEDIATION

FIGURE 6

File Name: N:\Projects\Health Infrastructure\60807 - CWMHSR and BIRS\GIS\Maps\R02 Rev 5\60807_06_ApproximateExtentRemediation_v2_R02_Rev5.mxd
Reference: Nearmap nearmap.com 20220912; Site Plan: 0816_JS_IA250300-NEWB-AR-DRG-0011(1)PROPOSED SITE

Appendix A: Proposed Site Plan

IMHC-STAGING PLAN v1
SITE PLAN

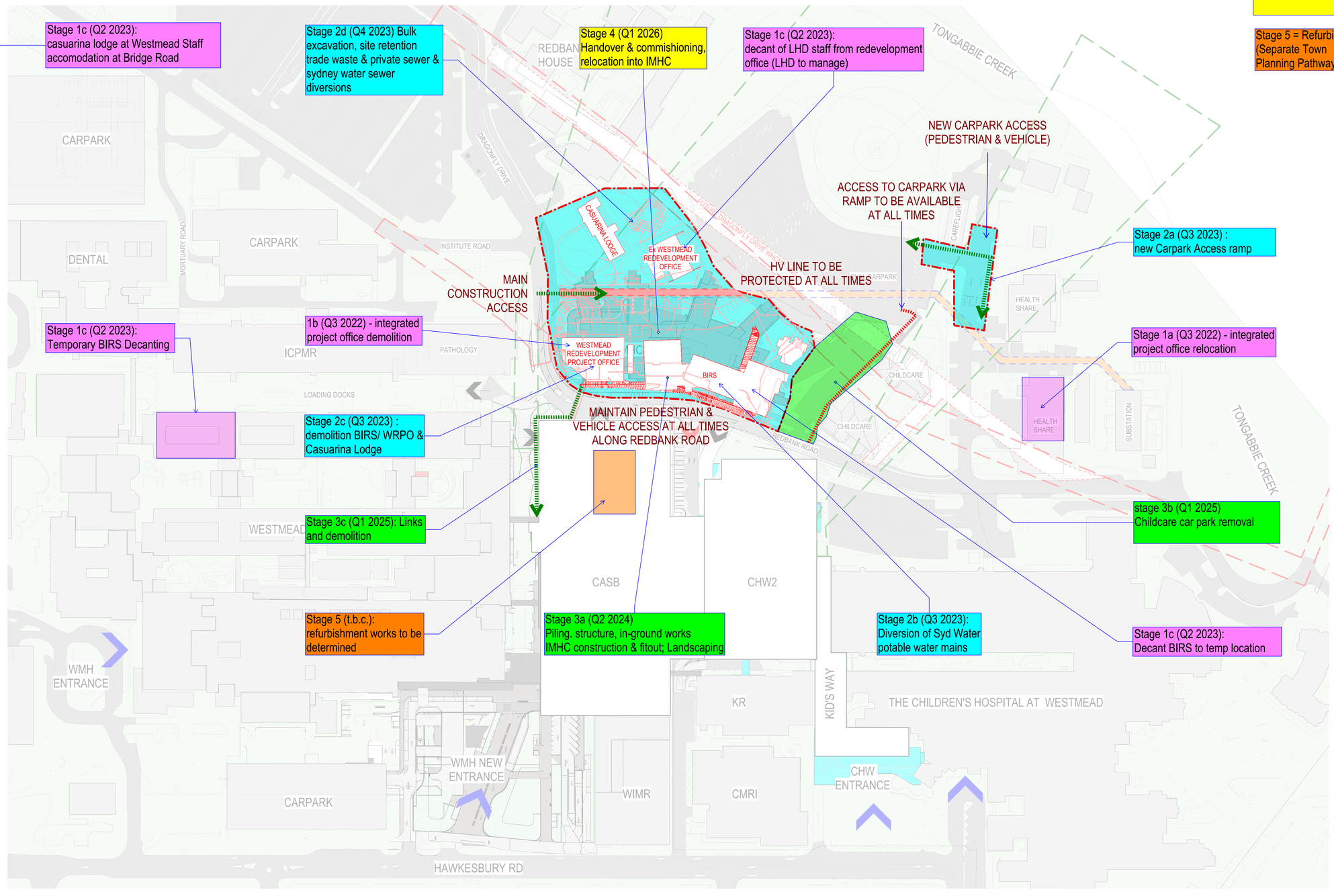
Stage 1 = enabling works (Separate Town Planning Pathway)

Stage 2 = early works (Separate Town Planning Pathway)

Stage 3 = Main works (SSDA)

Stage 4 = Handover

Stage 5 = Refurbishment (Separate Town Planning Pathway)

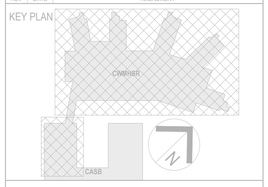


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REV	DATE	AMENDMENT
4	29/10/21	ISSUE FOR INFORMATION
3	18/10/21	ISSUE FOR INFORMATION
2	17/09/21	70% SD ISSUE
1	06/09/21	PRELIMINARY ISSUE

KEY PLAN



CONSULTANTS

CLIENT

Health Western Sydney Local Health District

Health Infrastructure

CBRE

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PROJECT
CUMBERLAND WEST MENTAL HEALTH SERVICES RELOCATION

PROJECT NO.
IA250300

DRAWING TITLE
PROPOSED SITE CONTEXT PLAN

STATUS
FOR INFORMATION

DRAWN	DESIGNED
CT/EF/GA//RS/VD	CY/DG
CHECKED	APPROVED
DG/EF	DG/EF

SCALE @ B1
1 : 1000

DRAWING NO.
IMHC-AR-DG-0010

REVISION
4

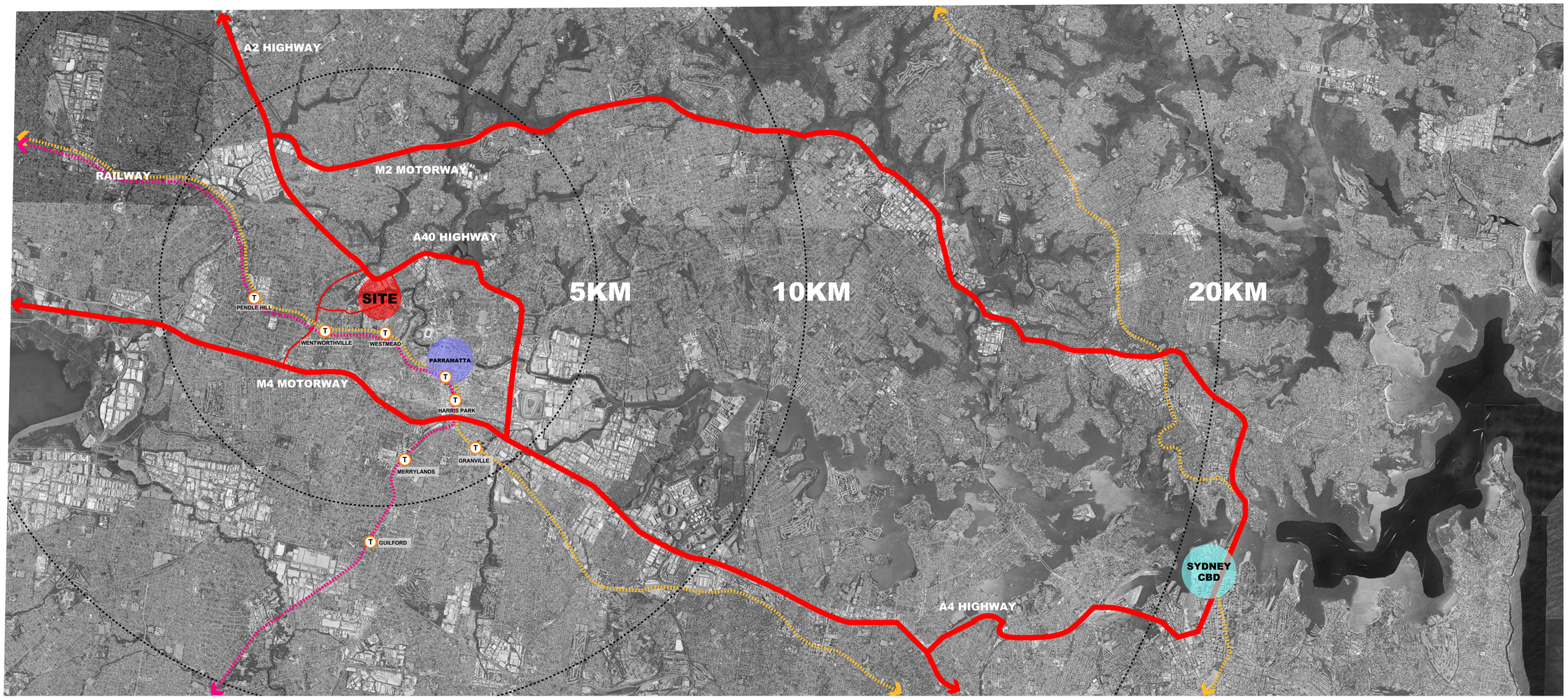
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SSDA DRAWING ISSUE
INTEGRATED MENTAL HEALTH COMPLEX

TABLE OF DRAWINGS

SHEET NUMBER	TITLE
IMHC-AR-DG-0140	LOCALITY
IMHC-AR-DG-0150	DEMOLITION PLAN
IMHC-AR-DG-0151	PRE-DEVELOPMENT PLAN
IMHC-AR-DG-0120	PROPOSED SITE PLAN
IMHC-AR-DG-1600	PROPOSED FLOOR PLAN - LEVEL 0
IMHC-AR-DG-1601	PROPOSED FLOOR PLAN - LEVEL 1
IMHC-AR-DG-1602	PROPOSED FLOOR PLAN - LEVEL 2
IMHC-AR-DG-1603	PROPOSED FLOOR PLAN - LEVEL 3
IMHC-AR-DG-1604	PROPOSED FLOOR PLAN - LEVEL 4
IMHC-AR-DG-1605	PROPOSED FLOOR PLAN - LEVEL 5
IMHC-AR-DG-1606	PROPOSED FLOOR PLAN - LEVEL 6
IMHC-AR-DG-1607	PROPOSED FLOOR PLAN - LEVEL 7
IMHC-AR-DG-1608	PROPOSED FLOOR PLAN - LEVEL 8
IMHC-AR-DG-1609	PROPOSED FLOOR PLAN - LEVEL 9
IMHC-AR-DG-1610	PROPOSED FLOOR PLAN - LEVEL 10
IMHC-AR-DG-1611	PROPOSED FLOOR PLAN - ROOF
IMHC-AR-DG-4001	ELEVATION - NORTH & SOUTH
IMHC-AR-DG-4002	ELEVATION - EAST & WEST
IMHC-AR-DG-4101	SECTION - NORTH SOUTH
IMHC-AR-DG-4102	SECTION - CASB LINK
IMHC-AR-DG-4103	SECTION - NORTHERN COURTYARDS
IMHC-AR-DG-4104	SECTION - ENTRY & CORRIDOR
IMHC-AR-DG-7900	SHADOW DIAGRAM - SUMMER
IMHC-AR-DG-7901	SHADOW DIAGRAM - WINTER
IMHC-AR-DG-7910	MATERIAL BOARD



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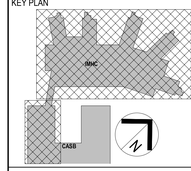
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LEGENDS

- MAJOR ROADS
- T1 RAILWAY
- T5 RAILWAY
- TRAIN STATION
- WESTMEAD HOSPITAL CAMPUS
- CBD
- PARRAMATTA

REV	DATE	AMENDMENT
2	18/07/22	SSDA ISSUE
1	06/07/22	SSDA REVIEW ISSUE

KEY PLAN



PROJECT MANAGER

CBRE

CLIENT

NSW GOVERNMENT Health Sydney Local Health District

NSW GOVERNMENT Health Infrastructure

Jacobs

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Web: jacobs.com

PROJECT
CUMBERLAND WEST MENTAL HEALTH SERVICES RELOCATION

PROJECT NO.
IA250300

DRAWING TITLE

STATUS
FOR INFORMATION

DRAWN	DESIGNED
RS/SF	JS
CHECKED	APPROVED
SF	CY

SCALE @ A0
1 : 500

DRAWING NO. **IMHC-AR-DG-0140**
REVISION **2**



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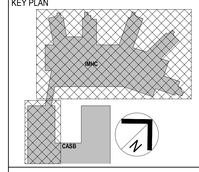
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LEGENDS

- LOCATION OF PROPOSED WORKS
- BUILDINGS TO BE DEMOLISHED (SEPARATE TOWN PLANNING APPROVAL PATHWAY)
- SURROUNDING BUILDING MASS

REV	DATE	AMENDMENT
2	19/07/22	SSDA ISSUE
1	06/07/22	SSDA REVIEW ISSUE

KEY PLAN



PROJECT MANAGER

CBRE

CLIENT

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Web: jacobs.com

PROJECT
CUMBERLAND WEST MENTAL HEALTH SERVICES RELOCATION

PROJECT NO.
IA250300

DRAWING TITLE
EXISTING SITE PLAN

STATUS
FOR INFORMATION

DRAWN	DESIGNED
RS/SF	JS
CHECKED	APPROVED
SF	CY

SCALE @ A0
1 : 500

DRAWING NO.
IMHC-AR-DG-0150

REVISION
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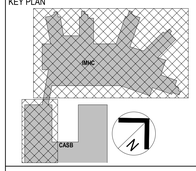
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LEGENDS

- LOCATION OF PROPOSED WORKS
- DEMOLISHED AREA MADE GOOD WITH NEW TURFED SURFACE
- SURROUNDING BUILDING MASS

REV	DATE	AMENDMENT
2	19/07/22	SSDA ISSUE
1	06/07/22	SSDA REVIEW ISSUE

KEY PLAN



PROJECT MANAGER

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PROJECT
CUMBERLAND WEST MENTAL HEALTH SERVICES RELOCATION

PROJECT NO.
IA250300

DRAWING TITLE
PRE-DEVELOPMENT SITE PLAN

STATUS
FOR INFORMATION

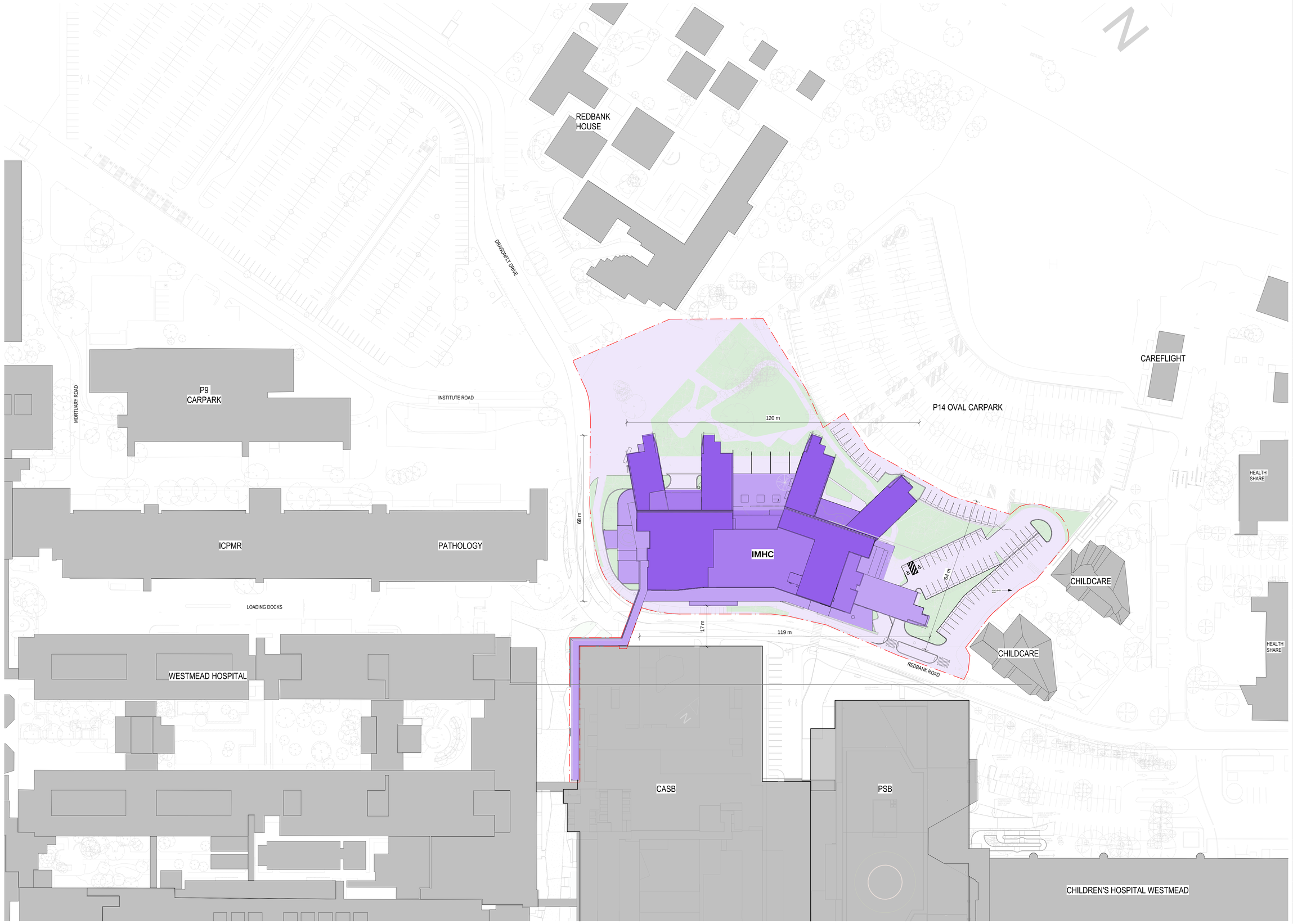
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RS/SF	JS
CHECKED	APPROVED
SF	CY

SCALE @ A0
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DRAWING NO.
IMHC-AR-DG-0151

REVISION
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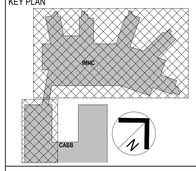
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LEGENDS

- LOCATION OF PROPOSED WORKS
- SURROUNDING BUILDING MASS
- LANDSCAPE
- PROJECT SITE
- IMHC BUILDING

REV	DATE	AMENDMENT
10	18/07/22	SSDA ISSUE
9	08/07/22	SSDA REVIEW ISSUE
8	03/06/22	70% DD ISSUE
7	03/12/21	SD ISSUE
6	19/11/21	SD FINAL DRAFT
5	08/11/21	SD FROZEN ISSUE
4	29/10/21	ISSUE FOR INFORMATION
3	18/10/21	ISSUE FOR INFORMATION
2	17/09/21	70% SD ISSUE
1	06/08/21	PRELIMINARY ISSUE

KEY PLAN



PROJECT MANAGER

CBRE

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NSW GOVERNMENT Health Sydney Local Health District

NSW GOVERNMENT Health Infrastructure

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Web: jacobs.com

PROJECT
CUMBERLAND WEST MENTAL HEALTH SERVICES RELOCATION

PROJECT NO.
IA250300

DRAWING TITLE
PROPOSED SITE PLAN

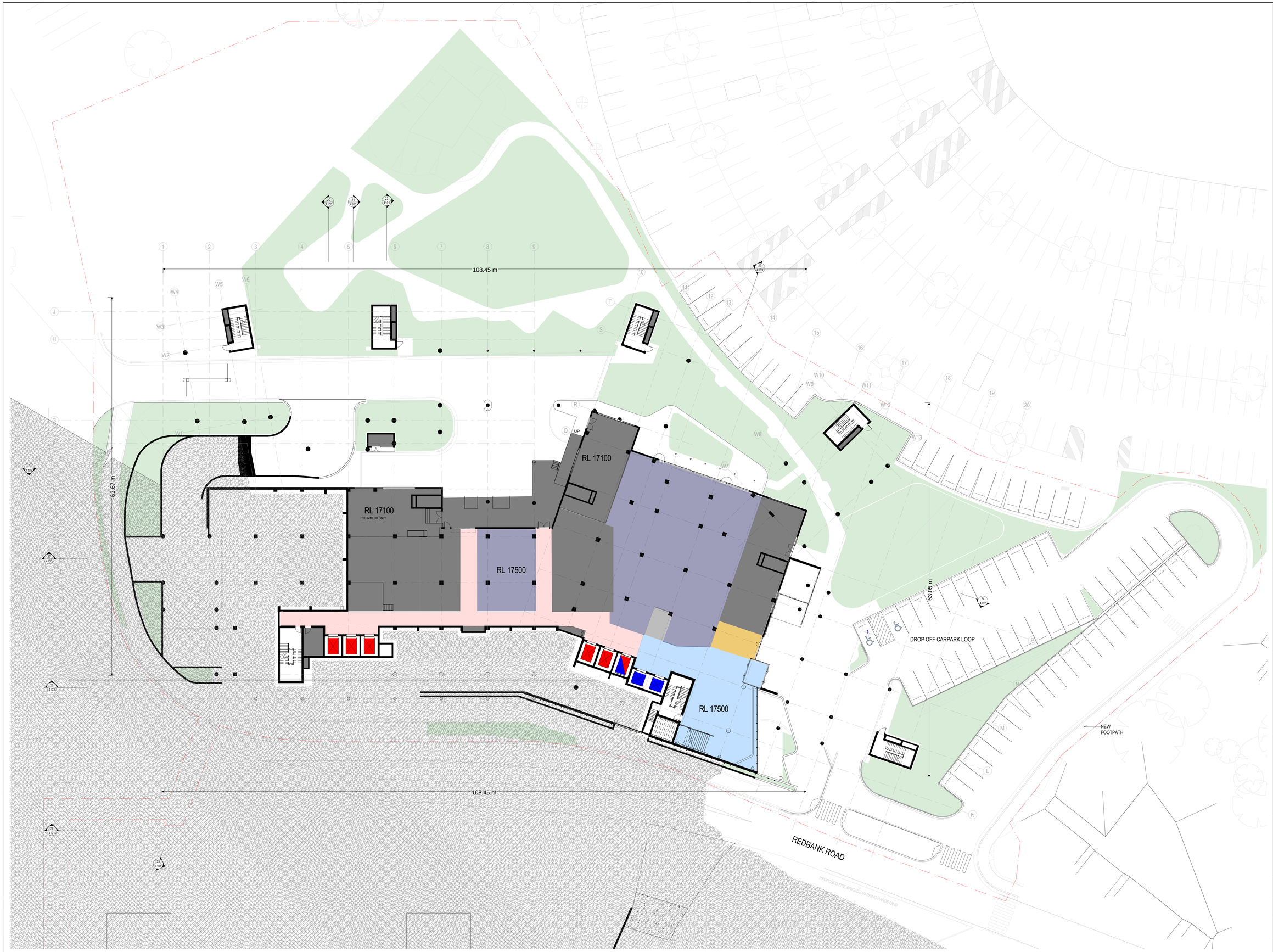
STATUS
FOR INFORMATION

DRAWN	DESIGNED
CT/EF/GA//RS/VD	CY/DG
CHECKED	APPROVED
DG/EF	DG/EF

SCALE @ A0
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DRAWING NO.
IMHC-AR-DG-0120

REVISION
10



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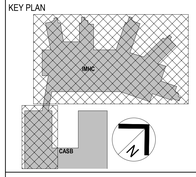
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LEGENDS

- LOCATION OF PROPOSED WORKS
- EARTH
- LANDSCAPE
- SURROUNDING BUILDING MASS
- PUBLIC LIFT
- BOH LIFT
- BOH CIRCULATION
- PLANT / BOH
- RETAIL
- PUBLIC REALM
- DEPARTMENT
- COURTYARD
- ROOF
- PLANTED ROOF

REV	DATE	AMENDMENT
2	18/07/22	SSDA ISSUE
1	06/07/22	SSDA REVIEW ISSUE

KEY PLAN



PROJECT MANAGER

CBRE

CLIENT

NSW GOVERNMENT Health
Sydney Local Health District

NSW GOVERNMENT Health
Infrastructure

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PROJECT
CUMBERLAND WEST MENTAL HEALTH SERVICES RELOCATION

PROJECT NO.
IA250300

DRAWING TITLE
PROPOSED FLOOR PLAN - LEVEL 0

STATUS
FOR INFORMATION

DRAWN	DESIGNED
EF/CT/VD/GA/RS	JS
CHECKED	APPROVED
SF/JS/RG	CY

SCALE @ A0
1 : 200

DRAWING NO.
IMHC-AR-DG-1600

REVISION
2

BIM 360://AU-IA250300-Cumberland West Mental Health/IA250300-MAIN.rvt
19/07/2022 5:53:53 PM

108.45 m

63.67 m

63.05 m

RL 21500

RL 19800

ROOF

CANOPY ROOF ABOVE

VOID

22.35 m

17.03 m

108.45 m

CASB

REDBANK ROAD

PROPOSED FIRE BRIGADE PARKING HARDSTAND

BOOSTER ASSEMBLY FOR FSB

EXISTING CASB MAIN ENTRYWAY

NOTES

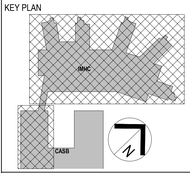
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LEGENDS

- LOCATION OF PROPOSED WORKS
- EARTH
- LANDSCAPE
- SURROUNDING BUILDING MASS
- PUBLIC LIFT
- BOH LIFT
- BOH CIRCULATION
- PLANT / BOH
- RETAIL
- PUBLIC REALM
- DEPARTMENT
- COURTYARD
- ROOF
- PLANTED ROOF

REV	DATE	AMENDMENT
2	19/07/22	SSDA ISSUE
1	06/07/22	SSDA REVIEW ISSUE

KEY PLAN



PROJECT MANAGER

CBRE

CLIENT

NSW GOVERNMENT Health
Sydney Local Health District

NSW GOVERNMENT Health
Infrastructure

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Fax: +61 2 9928 2510
Web: jacobs.com

PROJECT
CUMBERLAND WEST MENTAL HEALTH SERVICES RELOCATION

PROJECT NO.
IA250300

DRAWING TITLE
PROPOSED FLOOR PLAN - LEVEL 1

STATUS
FOR INFORMATION

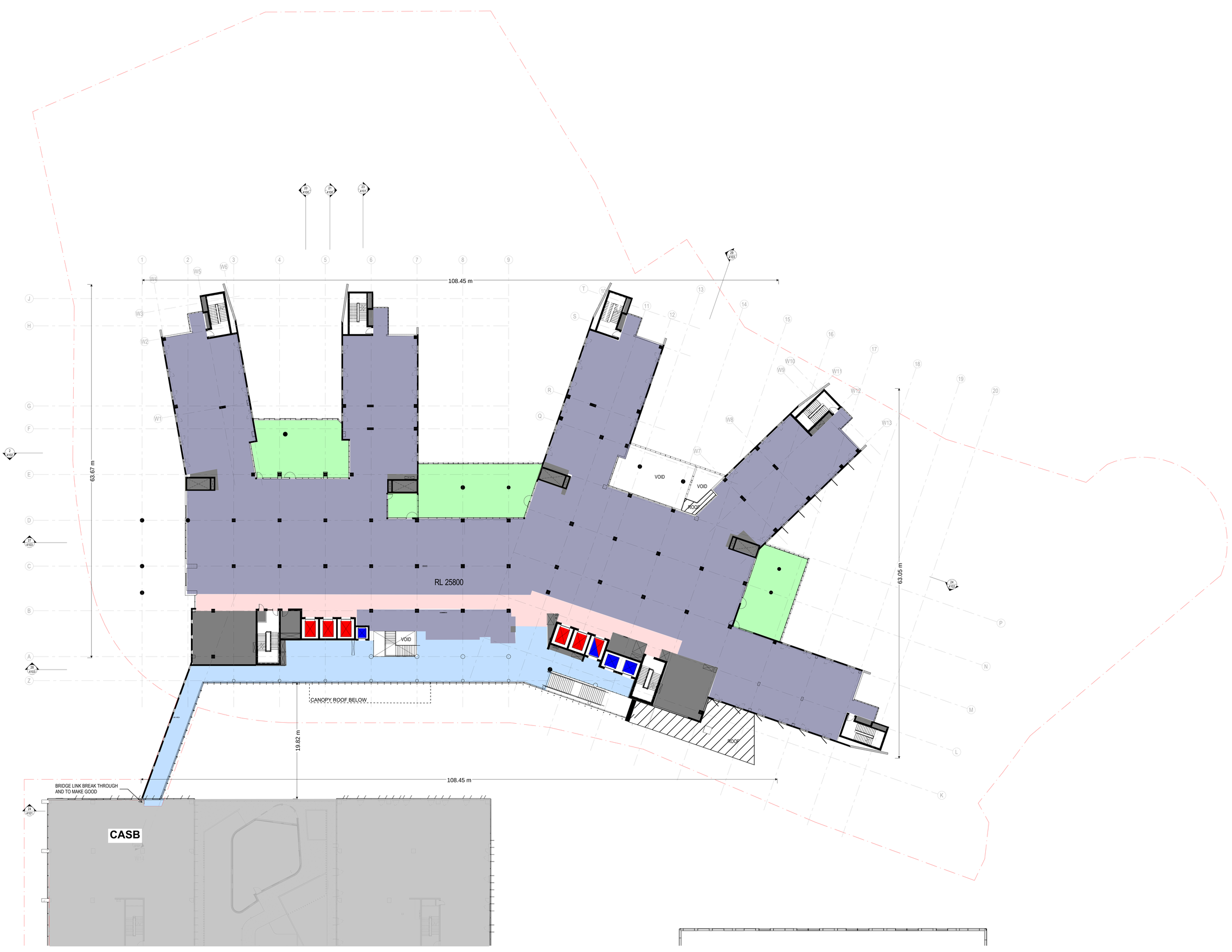
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EF/CT/VD/GA/RS	JS
CHECKED	APPROVED
SF/JS/RG	CY

SCALE @ A0
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DRAWING NO.
IMHC-AR-DG-1601

REVISION
2

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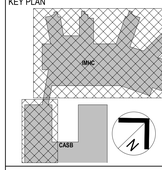
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LEGENDS

- LOCATION OF PROPOSED WORKS
- EARTH
- LANDSCAPE
- SURROUNDING BUILDING MASS
- PUBLIC LIFT
- BOH LIFT
- BOH CIRCULATION
- PLANT / BOH
- RETAIL
- PUBLIC REALM
- DEPARTMENT
- COURTYARD
- ROOF
- PLANTED ROOF

REV	DATE	AMENDMENT
2	19/07/22	SSDA ISSUE
1	06/07/22	SSDA REVIEW ISSUE

KEY PLAN



PROJECT MANAGER

CBRE

CLIENT

NSW GOVERNMENT Health Sydney Local Health District

NSW GOVERNMENT Health Infrastructure

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Fax: +61 2 9928 2510
Web: jacobs.com

PROJECT
CUMBERLAND WEST MENTAL HEALTH SERVICES RELOCATION

PROJECT NO.
IA250300

DRAWING TITLE
PROPOSED FLOOR PLAN - LEVEL 2

STATUS
FOR INFORMATION

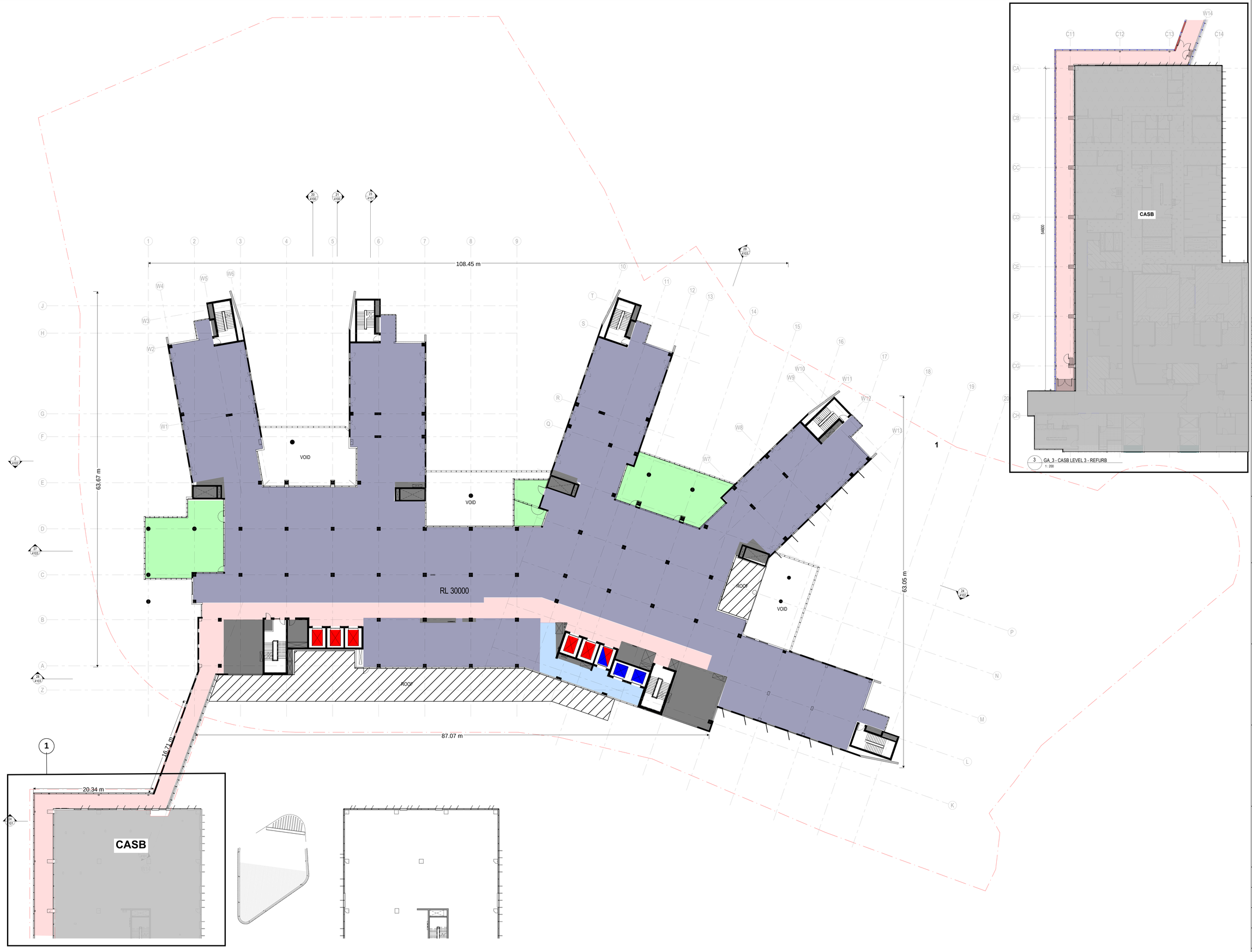
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EF/CTVD/GA/RS	JS
CHECKED	APPROVED
SF/JS/RG	CY

SCALE @ A0
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DRAWING NO.
IMHC-AR-DG-1602

REVISION
2

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3 GA - CASB LEVEL 3 - REFURB
1 : 200

NOTES

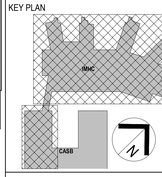
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LEGENDS

- LOCATION OF PROPOSED WORKS
- EARTH
- LANDSCAPE
- SURROUNDING BUILDING MASS
- PUBLIC LIFT
- BOH LIFT
- BOH CIRCULATION
- PLANT / BOH
- RETAIL
- PUBLIC REALM
- DEPARTMENT
- COURTYARD
- ROOF
- PLANTED ROOF

REV	DATE	AMENDMENT
2	19/07/22	SSDA ISSUE
1	06/07/22	SSDA REVIEW ISSUE

KEY PLAN



PROJECT MANAGER
CBRE

CLIENT
NSW GOVERNMENT Health Sydney Local Health District
NSW GOVERNMENT Health Infrastructure

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PROJECT
CUMBERLAND WEST MENTAL HEALTH SERVICES RELOCATION

PROJECT NO.
IA250300

DRAWING TITLE
PROPOSED FLOOR PLAN - LEVEL 3

STATUS
FOR INFORMATION

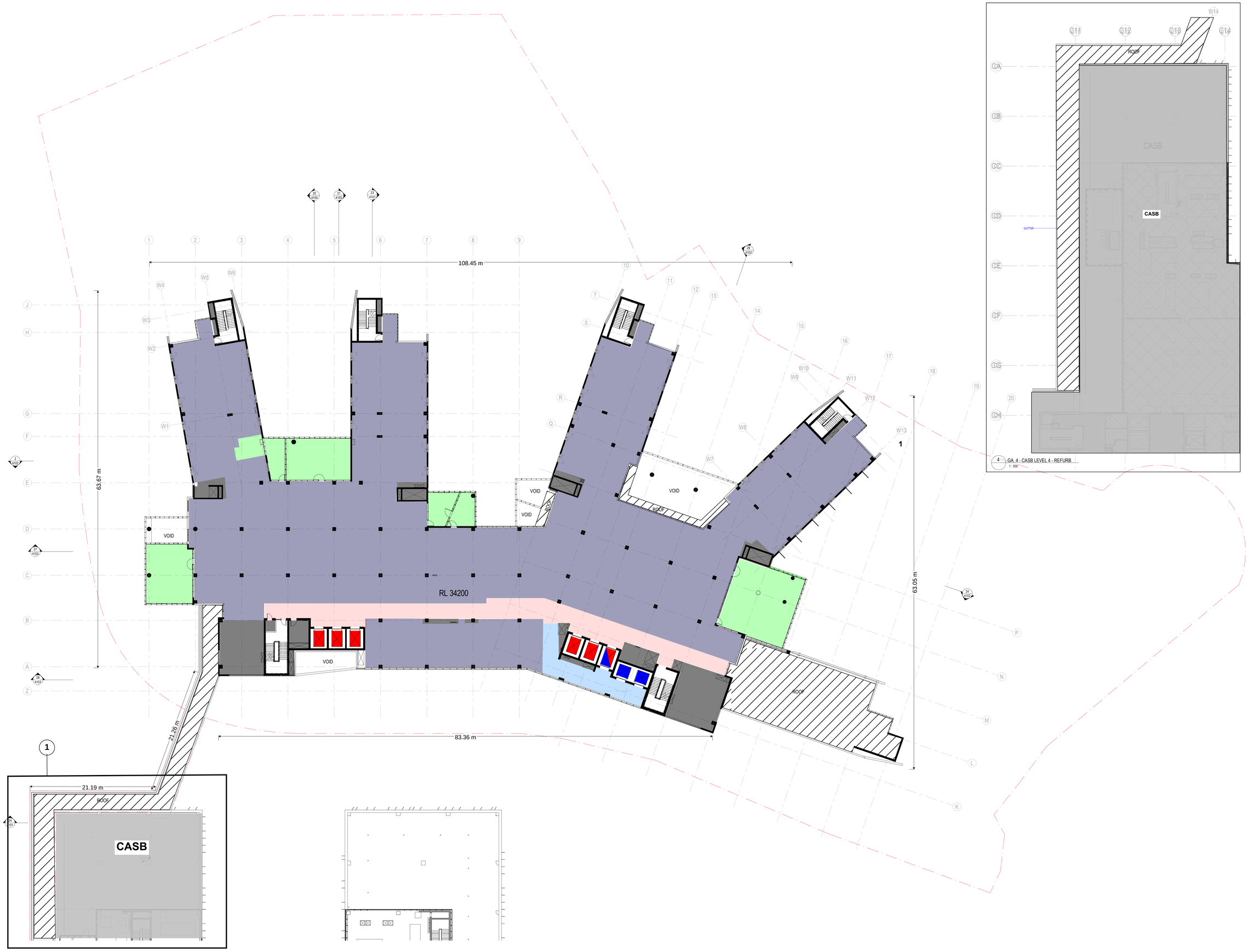
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EF/CT/VD/GA/RS	JS
CHECKED	APPROVED
SF/JS/RG	CY

SCALE @ A0
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DRAWING NO.
IMHC-AR-DG-1603

REVISION
2

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4 GA_4 - CASB LEVEL 4 - REFURB
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NOTES

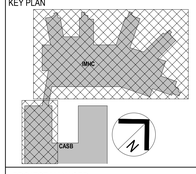
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LEGENDS

- LOCATION OF PROPOSED WORKS
- EARTH
- LANDSCAPE
- SURROUNDING BUILDING MASS
- PUBLIC LIFT
- BOH LIFT
- BOH CIRCULATION
- PLANT / BOH
- RETAIL
- PUBLIC REALM
- DEPARTMENT
- COURTYARD
- ROOF
- PLANTED ROOF

REV	DATE	AMENDMENT
2	18/07/22	SSDA ISSUE
1	06/07/22	SSDA REVIEW ISSUE

KEY PLAN



PROJECT MANAGER
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Local Health District
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Infrastructure

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PROJECT
CUMBERLAND WEST MENTAL HEALTH SERVICES RELOCATION

PROJECT NO.
IA250300

DRAWING TITLE
PROPOSED FLOOR PLAN - LEVEL 4

STATUS
FOR INFORMATION

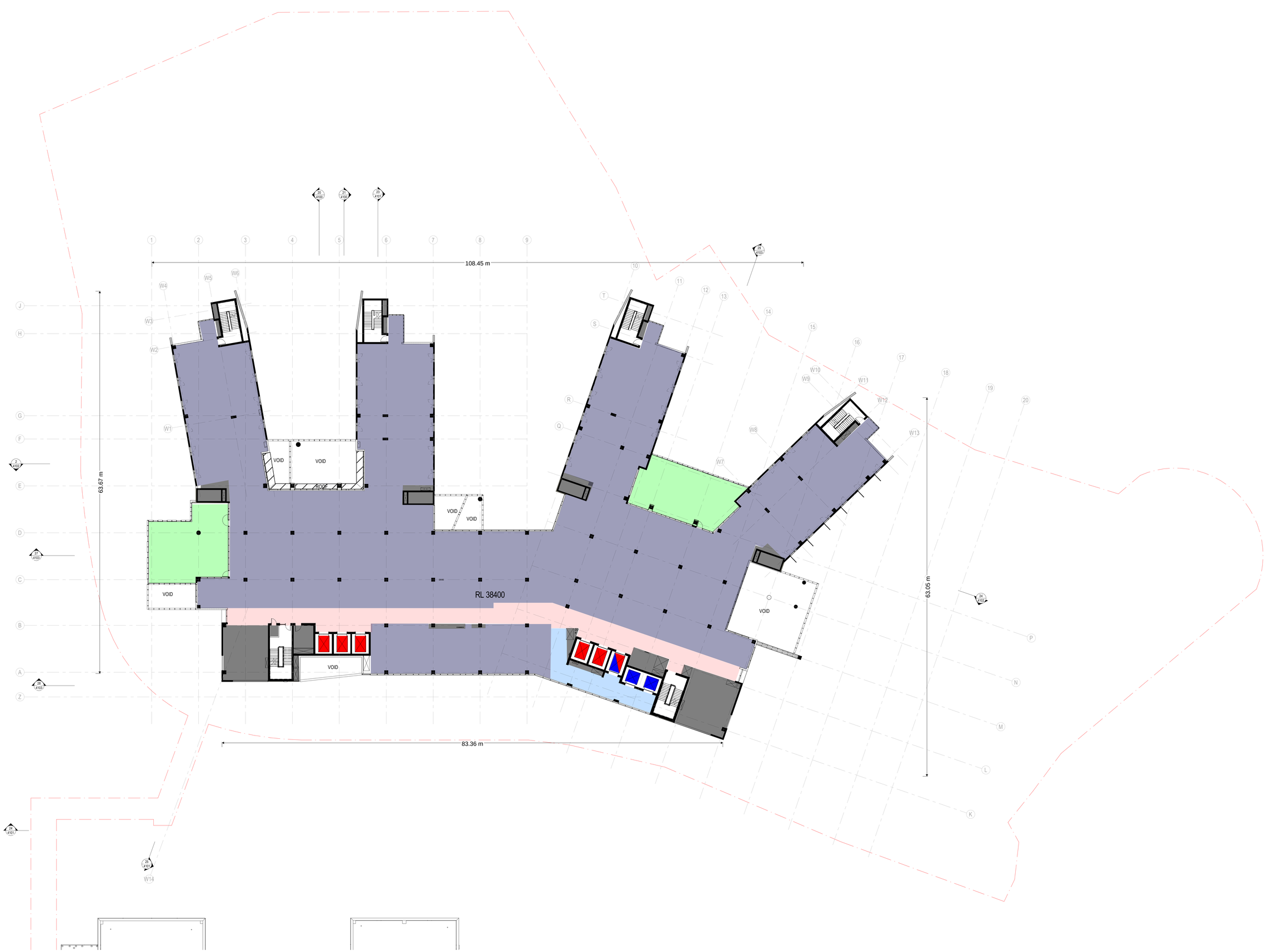
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EF/CT/VD/GA/RS	JS
CHECKED	APPROVED
SF/JS/RG	CY

SCALE @ A0
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DRAWING NO.
IMHC-AR-DG-1604

REVISION
2

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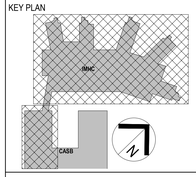
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LEGENDS

- LOCATION OF PROPOSED WORKS
- EARTH
- LANDSCAPE
- SURROUNDING BUILDING MASS
- PUBLIC LIFT
- BOH LIFT
- BOH CIRCULATION
- PLANT / BOH
- RETAIL
- PUBLIC REALM
- DEPARTMENT
- COURTYARD
- ROOF
- PLANTED ROOF

REV	DATE	AMENDMENT
2	19/07/22	SSDA ISSUE
1	06/07/22	SSDA REVIEW ISSUE

KEY PLAN



PROJECT MANAGER

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NSW GOVERNMENT Health
Infrastructure

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PROJECT
CUMBERLAND WEST MENTAL HEALTH SERVICES RELOCATION

PROJECT NO.
IA250300

DRAWING TITLE
PROPOSED FLOOR PLAN - LEVEL 5

STATUS
FOR INFORMATION

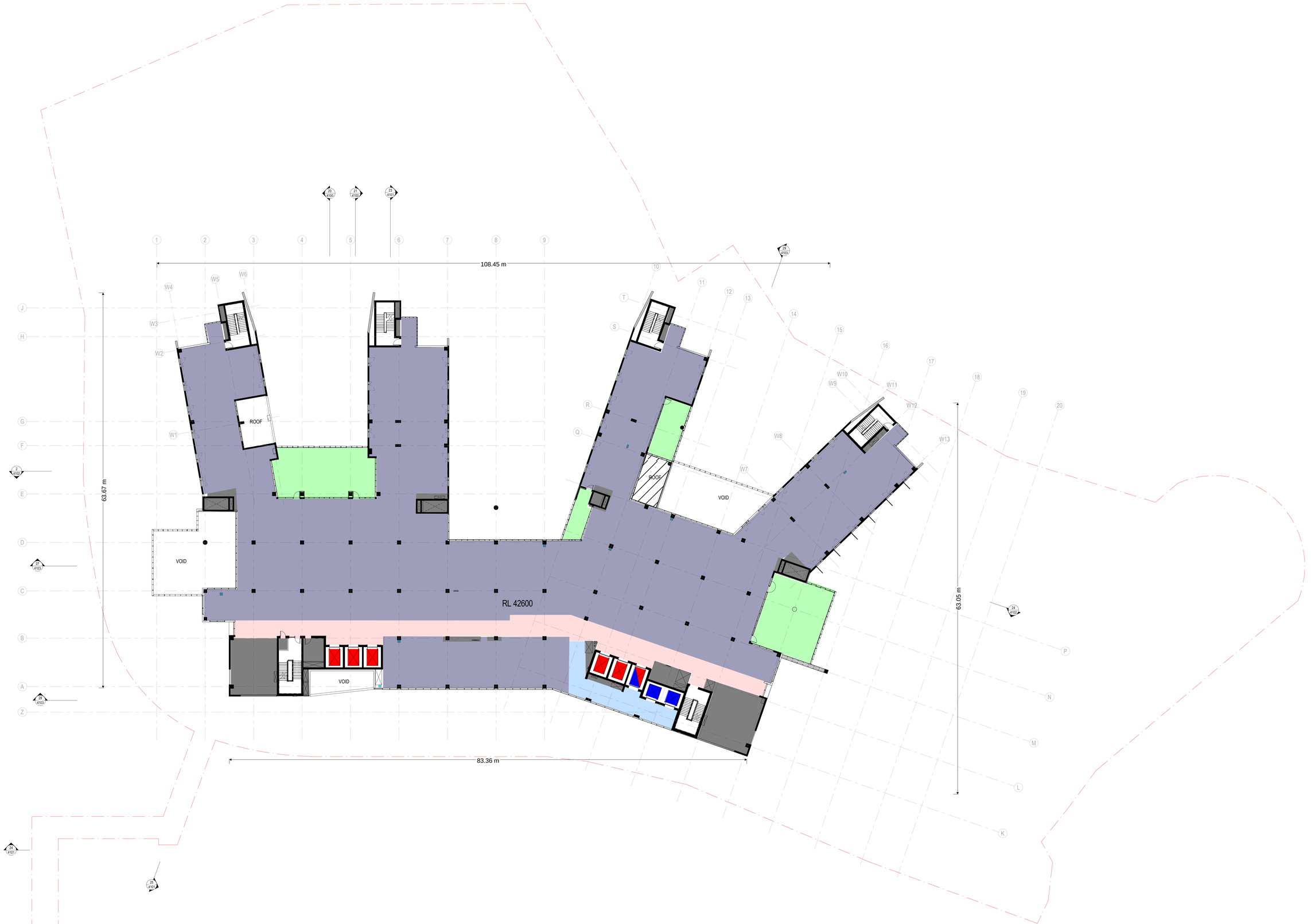
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EF/CT/VD/GA/RS	JS
CHECKED	APPROVED
SF/JS/RG	CY

SCALE @ A0
1 : 200

DRAWING NO.
IMHC-AR-DG-1605

REVISION
2

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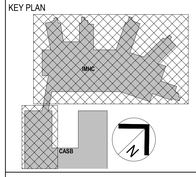
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LEGENDS

- LOCATION OF PROPOSED WORKS
- EARTH
- LANDSCAPE
- SURROUNDING BUILDING MASS
- PUBLIC LIFT
- BOH LIFT
- BOH CIRCULATION
- PLANT / BOH
- RETAIL
- PUBLIC REALM
- DEPARTMENT
- COURTYARD
- ROOF
- PLANTED ROOF

REV	DATE	AMENDMENT
2	19/07/22	SSDA ISSUE
1	06/07/22	SSDA REVIEW ISSUE

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PROJECT
CUMBERLAND WEST MENTAL HEALTH SERVICES RELOCATION

PROJECT NO.
IA250300

DRAWING TITLE
PROPOSED FLOOR PLAN - LEVEL 6

STATUS
FOR INFORMATION

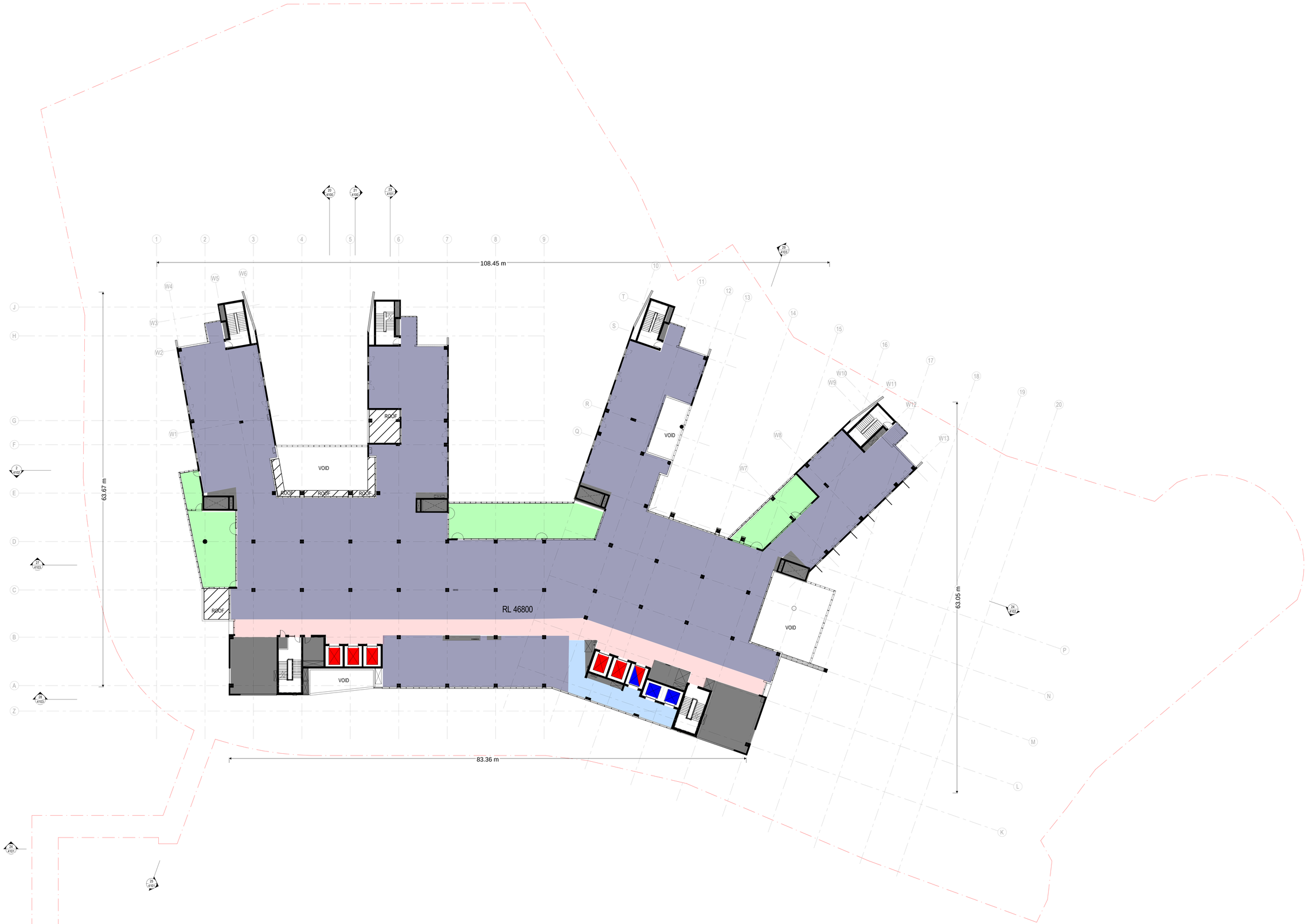
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EF/CT/VD/GA/RS	JS
CHECKED	APPROVED
SF/JS/RG	CY

SCALE @ A0
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IMHC-AR-DG-1606

REVISION
2

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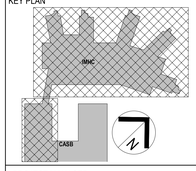
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LEGENDS

- LOCATION OF PROPOSED WORKS
- EARTH
- LANDSCAPE
- SURROUNDING BUILDING MASS
- PUBLIC LIFT
- BOH LIFT
- BOH CIRCULATION
- PLANT / BOH
- RETAIL
- PUBLIC REALM
- DEPARTMENT
- COURTYARD
- ROOF
- PLANTED ROOF

REV	DATE	AMENDMENT
2	19/07/22	SSDA ISSUE
1	06/07/22	SSDA REVIEW ISSUE

KEY PLAN



PROJECT MANAGER

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Sydney
Local Health District

Health
Infrastructure

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Fax: +61 2 9928 2510
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PROJECT
CUMBERLAND WEST MENTAL HEALTH SERVICES RELOCATION

PROJECT NO.
IA250300

DRAWING TITLE
PROPOSED FLOOR PLAN - LEVEL 7

STATUS
FOR INFORMATION

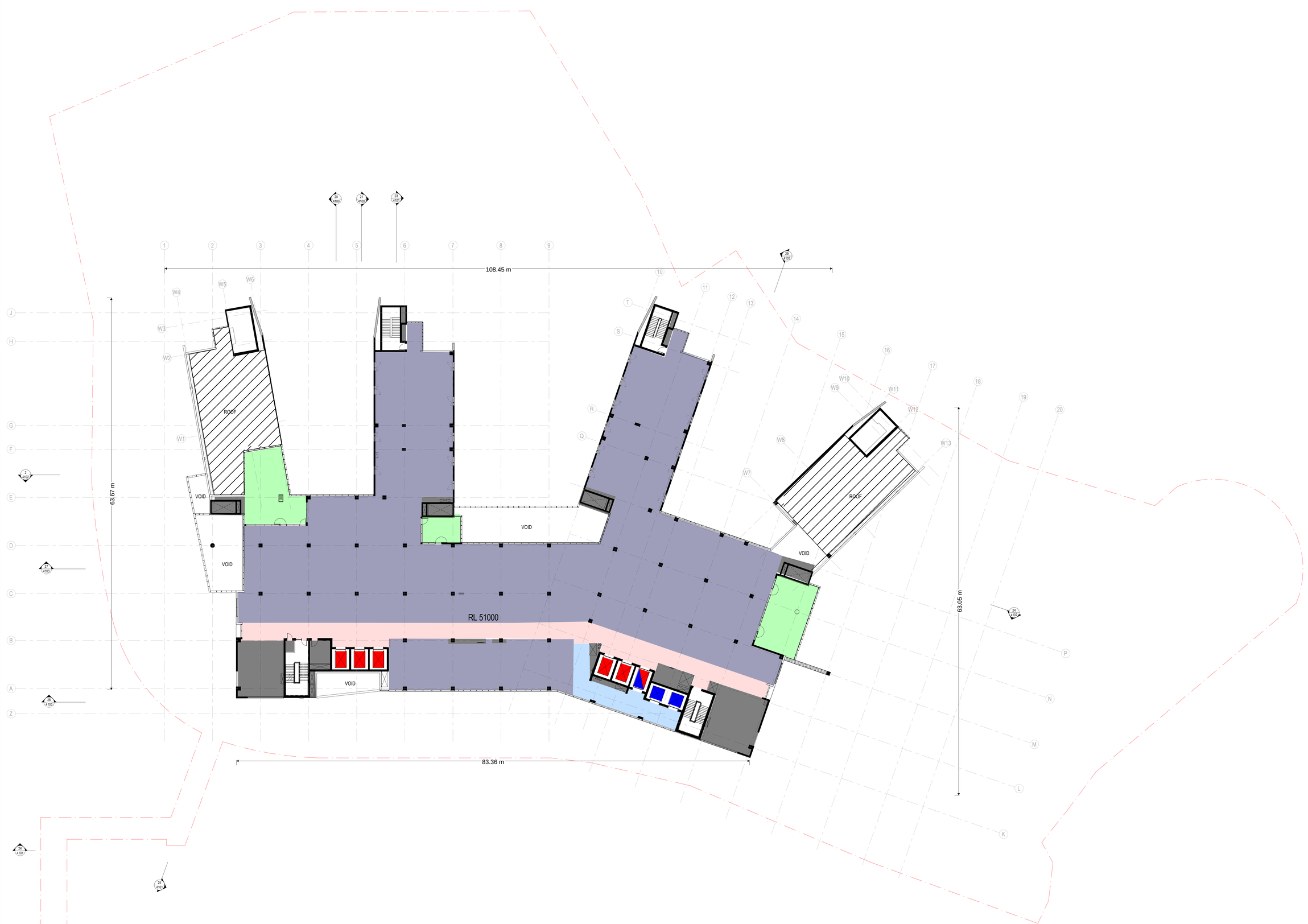
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EF/CT/VD/GA/RS	JS
CHECKED	APPROVED
SF/JS/RG	CY

SCALE @ A0
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DRAWING NO.
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REVISION
2

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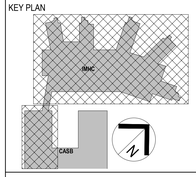
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LEGENDS

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- EARTH
- LANDSCAPE
- SURROUNDING BUILDING MASS
- PUBLIC LIFT
- BOH LIFT
- BOH CIRCULATION
- PLANT / BOH
- RETAIL
- PUBLIC REALM
- DEPARTMENT
- COURTYARD
- ROOF
- PLANTED ROOF

REV	DATE	AMENDMENT
2	19/07/22	SSDA ISSUE
1	06/07/22	SSDA REVIEW ISSUE

KEY PLAN



PROJECT MANAGER

CBRE

CLIENT

NSW GOVERNMENT Health Sydney Local Health District

NSW GOVERNMENT Health Infrastructure

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PROJECT
CUMBERLAND WEST MENTAL HEALTH SERVICES RELOCATION

PROJECT NO.
IA250300

DRAWING TITLE
PROPOSED FLOOR PLAN - LEVEL 8

STATUS
FOR INFORMATION

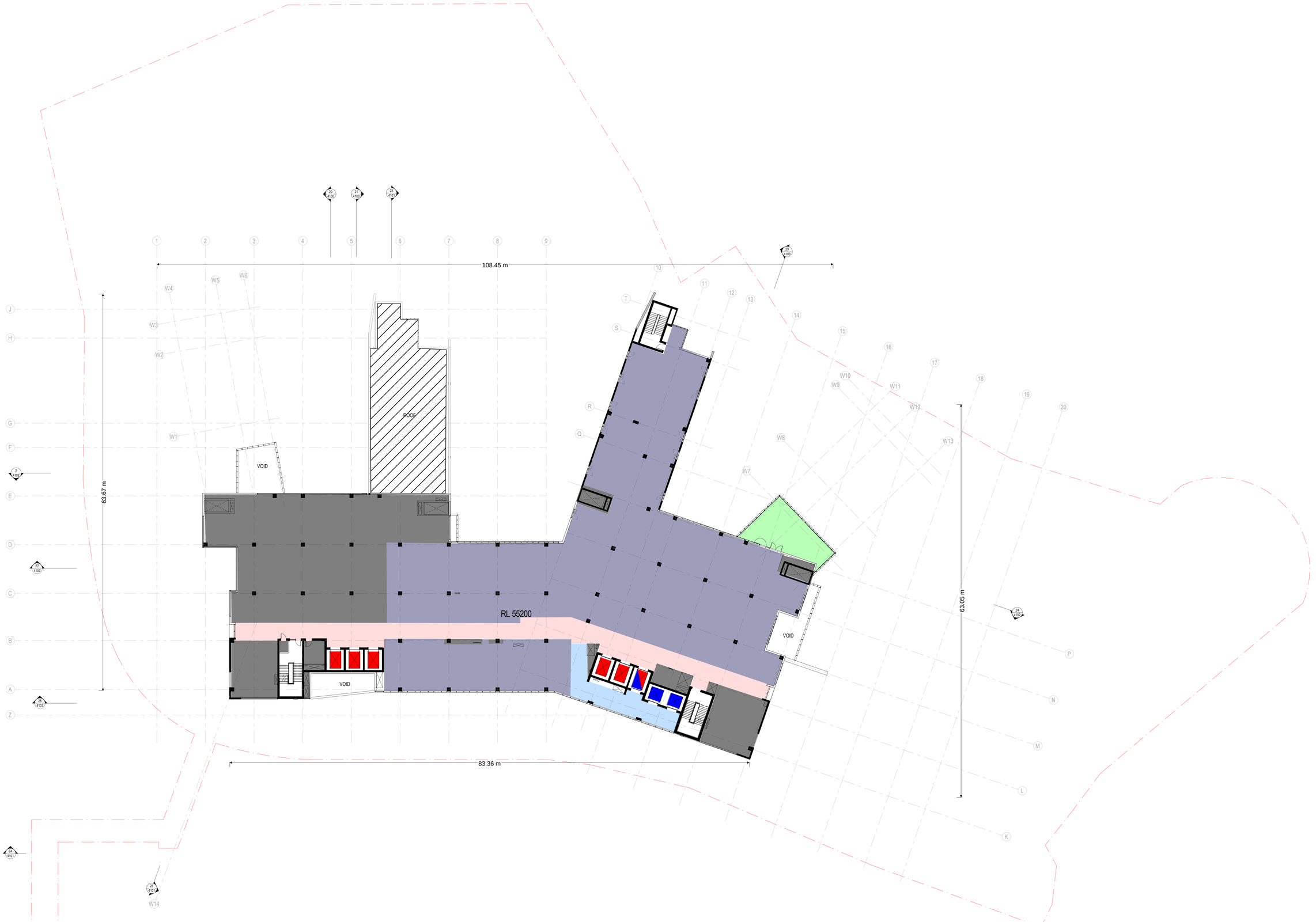
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EF/CT/VD/GA/RS	JS
CHECKED	APPROVED
SF/JS/RG	CY

SCALE @ A0
1 : 200

DRAWING NO.
IMHC-AR-DG-1608

REVISION
2

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NOTES

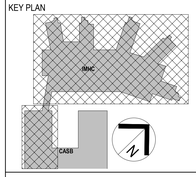
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LEGENDS

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- SURROUNDING BUILDING MASS
- PUBLIC LIFT
- BOH LIFT
- BOH CIRCULATION
- PLANT / BOH
- RETAIL
- PUBLIC REALM
- DEPARTMENT
- COURTYARD
- ROOF
- PLANTED ROOF

REV	DATE	AMENDMENT
2	18/07/22	SSDA ISSUE
1	06/07/22	SSDA REVIEW ISSUE

KEY PLAN



PROJECT MANAGER

CBRE

CLIENT

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NSW GOVERNMENT Health Infrastructure

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PROJECT
CUMBERLAND WEST MENTAL HEALTH SERVICES RELOCATION

PROJECT NO.
IA250300

DRAWING TITLE
PROPOSED FLOOR PLAN - LEVEL 9

STATUS
FOR INFORMATION

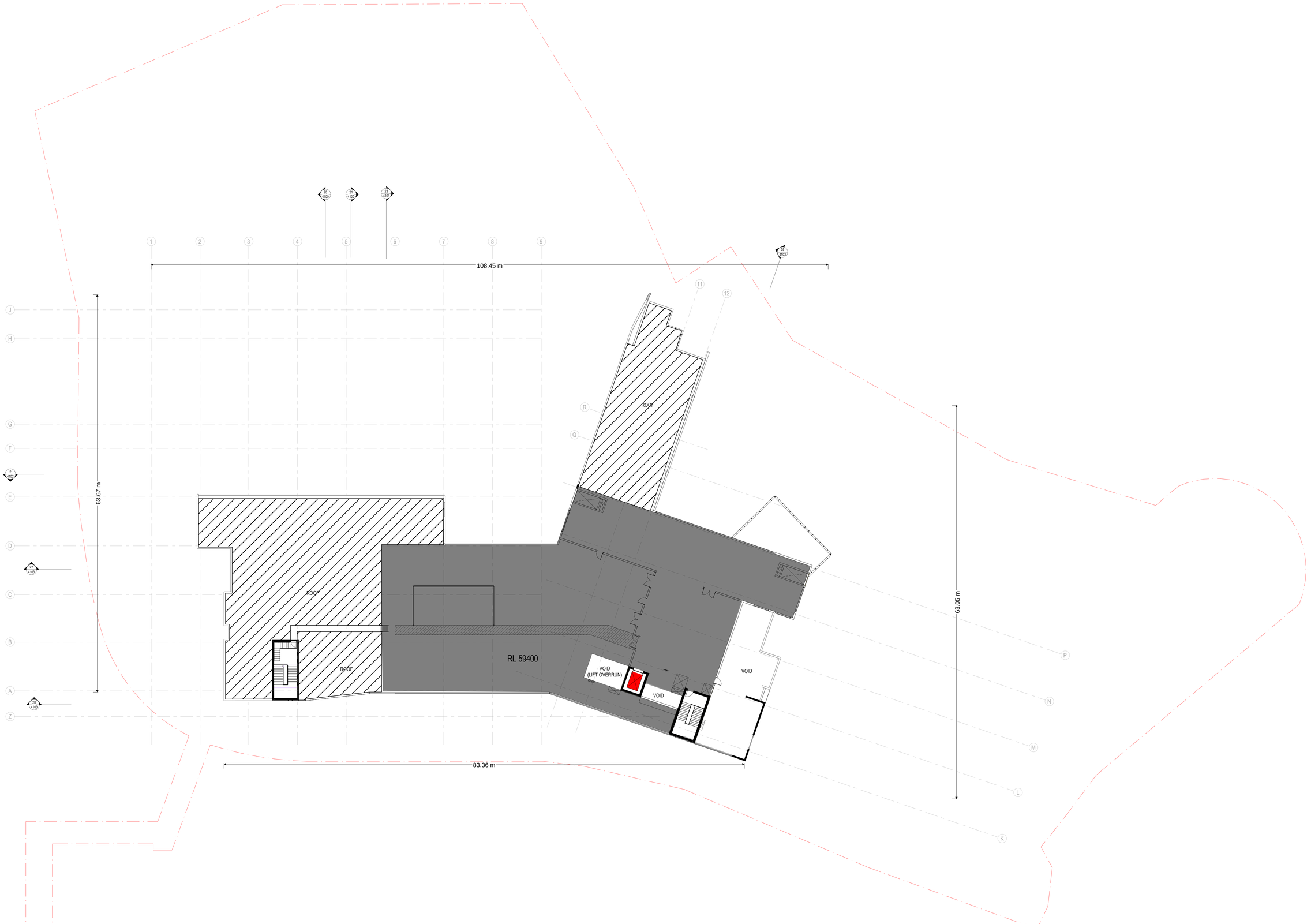
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EF/CT/VD/GA/RS	JS
CHECKED	APPROVED
SF/JS/RG	CY

SCALE @ A0
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DRAWING NO.
IMHC-AR-DG-1609

REVISION
2

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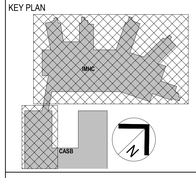
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LEGENDS

- LOCATION OF PROPOSED WORKS
- EARTH
- LANDSCAPE
- SURROUNDING BUILDING MASS
- PUBLIC LIFT
- BOH LIFT
- BOH CIRCULATION
- PLANT / BOH
- RETAIL
- PUBLIC REALM
- DEPARTMENT
- COURTYARD
- ROOF
- PLANTED ROOF

REV	DATE	AMENDMENT
2	19/07/22	SSDA ISSUE
1	06/07/22	SSDA REVIEW ISSUE

KEY PLAN



PROJECT MANAGER

CBRE

CLIENT

NSW GOVERNMENT Health
Sydney Local Health District

NSW GOVERNMENT Health
Infrastructure

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PROJECT
CUMBERLAND WEST MENTAL HEALTH SERVICES RELOCATION

PROJECT NO.
IA250300

DRAWING TITLE
PROPOSED FLOOR PLAN - LEVEL 10

STATUS
FOR INFORMATION

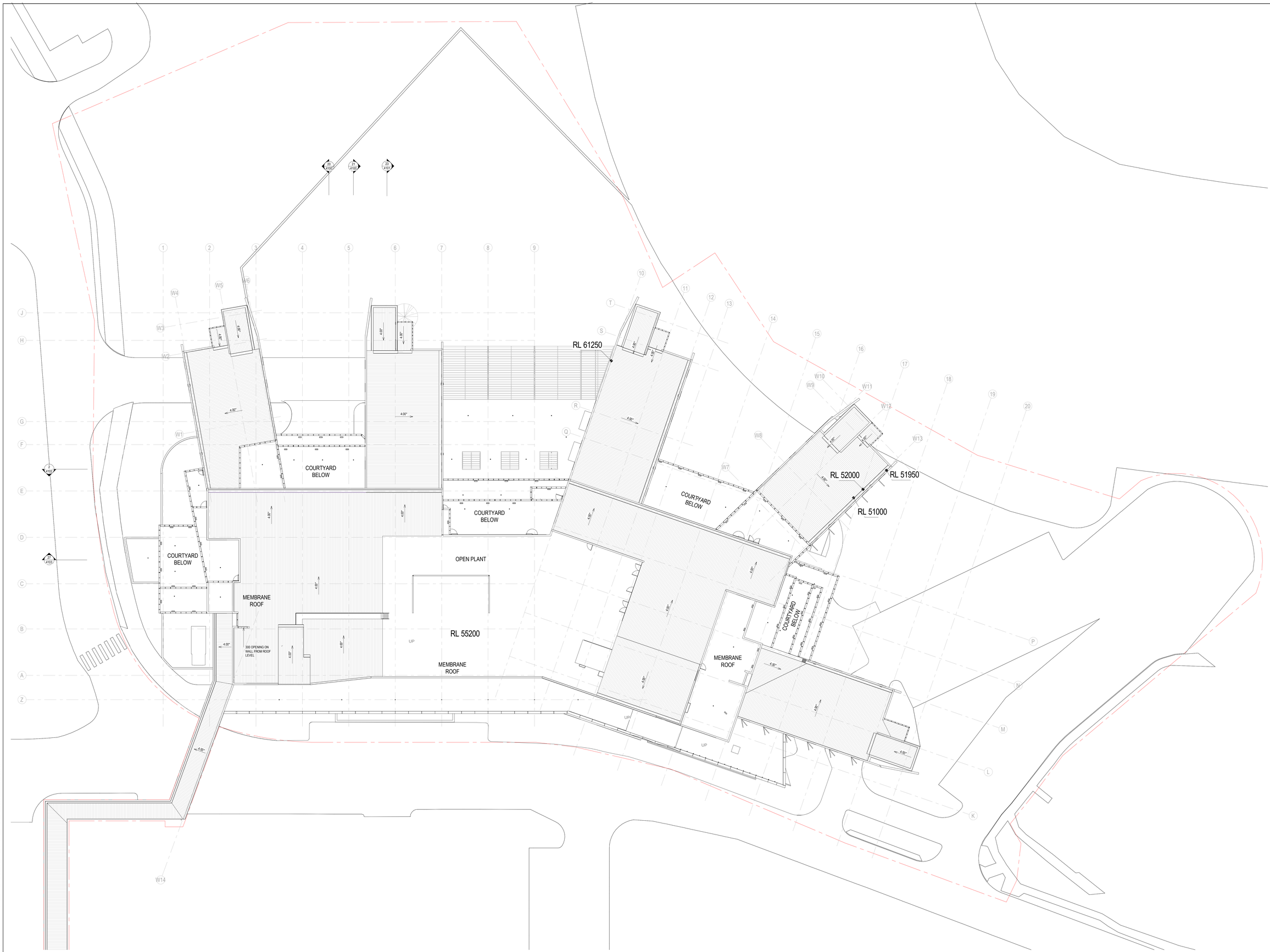
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EF/CT/VD/GA/RS	JS
CHECKED	APPROVED
SF/JS/RG	CY

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DRAWING NO.
IMHC-AR-DG-1610

REVISION
2

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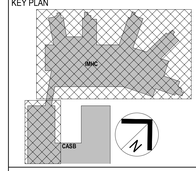


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REV	DATE	AMENDMENT
2	19/07/22	SSDA ISSUE
1	06/07/22	SSDA REVIEW ISSUE

KEY PLAN



PROJECT MANAGER

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PROJECT
CUMBERLAND WEST MENTAL HEALTH SERVICES RELOCATION

PROJECT NO.
IA250300

DRAWING TITLE
PROPOSED FLOOR PLAN - ROOF

STATUS
FOR INFORMATION

DRAWN	DESIGNED
EF/CT/VD/GA/RS	**JS**
CHECKED	APPROVED
SF/JS/RG	**CY**

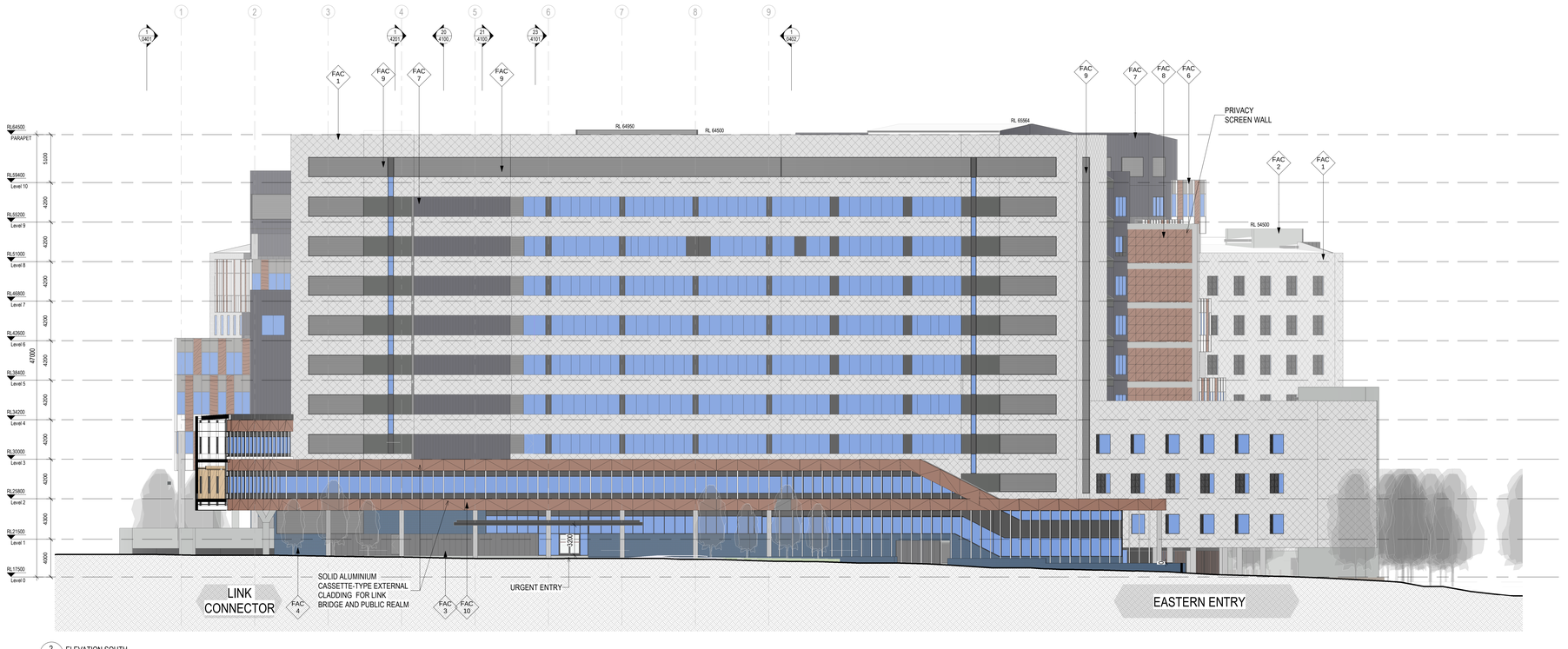
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REVISION **2**

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1 ELEVATION NORTH
1 : 200



2 ELEVATION SOUTH
1 : 200

NOTES

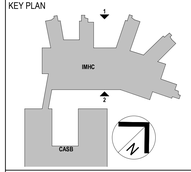
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ELEVATION LEGEND:

FAC1	MAIN FACADE SHINGLE ALUMINIUM CLADDING - MULTICOLOUR T.B.C
FAC2	OFF-FORM CONCRETE CORE
FAC3	COURTYARD PRE-FINISHED COMPRESSED FIBRE CEMENT CLADDING
FAC4	SELECTED BRICK (LEVEL 0-1)
FAC5	CURTAIN WALL CLADDING WITH COLOURBACK SPANDREL
FAC6	COURTYARD BALUSTRADE - GLAZED & MESH
FAC7	VERTICAL CLADDING - METAL SHEETING
FAC8	FEATURE METAL PANELS - COLOUR & PRODUCT T.B.C (PRIVACY SCREEN)
FAC9	PLANT LOUVRE SCREENING
FAC10	ALUMINIUM FASCIA PANEL
FAC11	ALUMINIUM CLADDING - COLOUR & PRODUCT T.B.C (TO LINK BRIDGE)

REV	DATE	AMENDMENT
9	18/07/22	SSDA ISSUE
8	08/07/22	SSDA REVIEW ISSUE
7	03/06/22	70% DD ISSUE
6	29/04/22	ISSUE FOR INFORMATION
5	03/12/21	SD ISSUE
4	19/11/21	SD FINAL DRAFT
3	08/11/21	SD FROZEN ISSUE
2	18/10/21	ISSUE FOR INFORMATION
1	17/09/21	70% SD ISSUE

KEY PLAN



PROJECT MANAGER

CBRE

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NSW GOVERNMENT Health Infrastructure

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PROJECT
CUMBERLAND WEST MENTAL HEALTH SERVICES RELOCATION

PROJECT NO.
IA250300

DRAWING TITLE
ELEVATION - NORTH & SOUTH

STATUS
FOR INFORMATION

DRAWN	DESIGNED
SC	**JS**
CHECKED	APPROVED
SF	**CY**

SCALE @ A0
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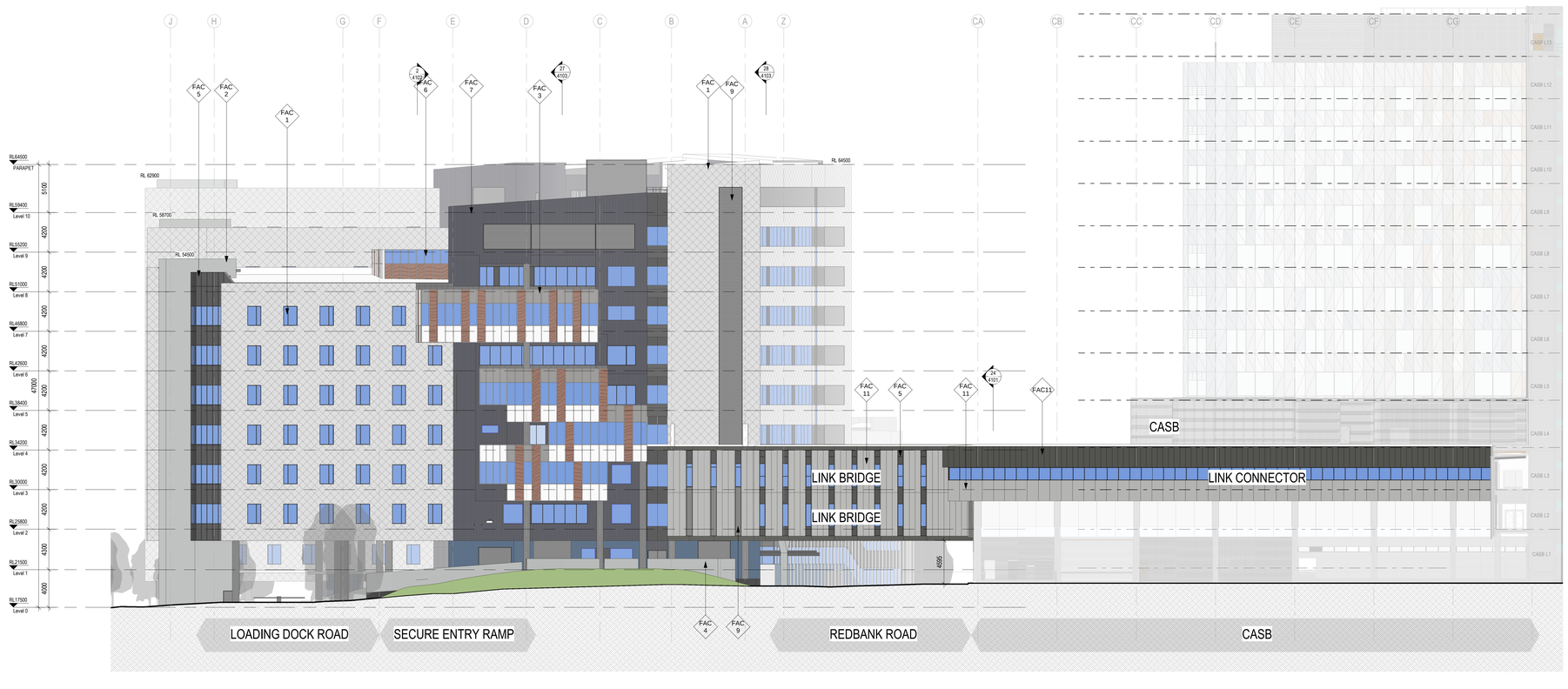
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IMHC-AR-DG-4001

REVISION
9

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1 ELEVATION EAST
1 : 200



2 ELEVATION WEST
1 : 200

NOTES

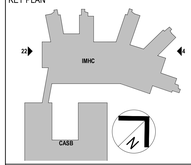
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ELEVATION LEGEND:

FAC1	MAIN FACADE SHINGLE ALUMINIUM CLADDING - MULTICOLOUR T.B.C
FAC2	OFF-FORM CONCRETE CORE
FAC3	COURTYARD PRE-FINISHED COMPRESSED FIBRE CEMENT CLADDING
FAC4	SELECTED BRICK (LEVEL 0-1)
FAC5	CURTAIN WALL CLADDING WITH COLOURBACK SPANDREL
FAC6	COURTYARD BALUSTRADE - GLAZED & MESH
FAC7	VERTICAL CLADDING - METAL SHEETING
FAC8	FEATURE METAL PANELS - COLOUR & PRODUCT T.B.C (PRIVACY SCREEN)
FAC9	PLANT LOUVRE SCREENING
FAC10	ALUMINIUM FASCIA PANEL
FAC11	ALUMINIUM CLADDING - COLOUR & PRODUCT T.B.C (TO LINK BRIDGE)

REV	DATE	AMENDMENT
9	18/07/22	SSDA ISSUE
8	08/07/22	SSDA REVIEW ISSUE
7	03/06/22	70% DD ISSUE
6	29/04/22	ISSUE FOR INFORMATION
5	03/12/21	SD ISSUE
4	19/11/21	SD FINAL DRAFT
3	08/11/21	SD FROZEN ISSUE
2	18/10/21	ISSUE FOR INFORMATION
1	17/09/21	70% SD ISSUE

KEY PLAN



PROJECT MANAGER

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PROJECT
CUMBERLAND WEST MENTAL HEALTH SERVICES RELOCATION

PROJECT NO.
IA250300

DRAWING TITLE
ELEVATION - EAST & WEST

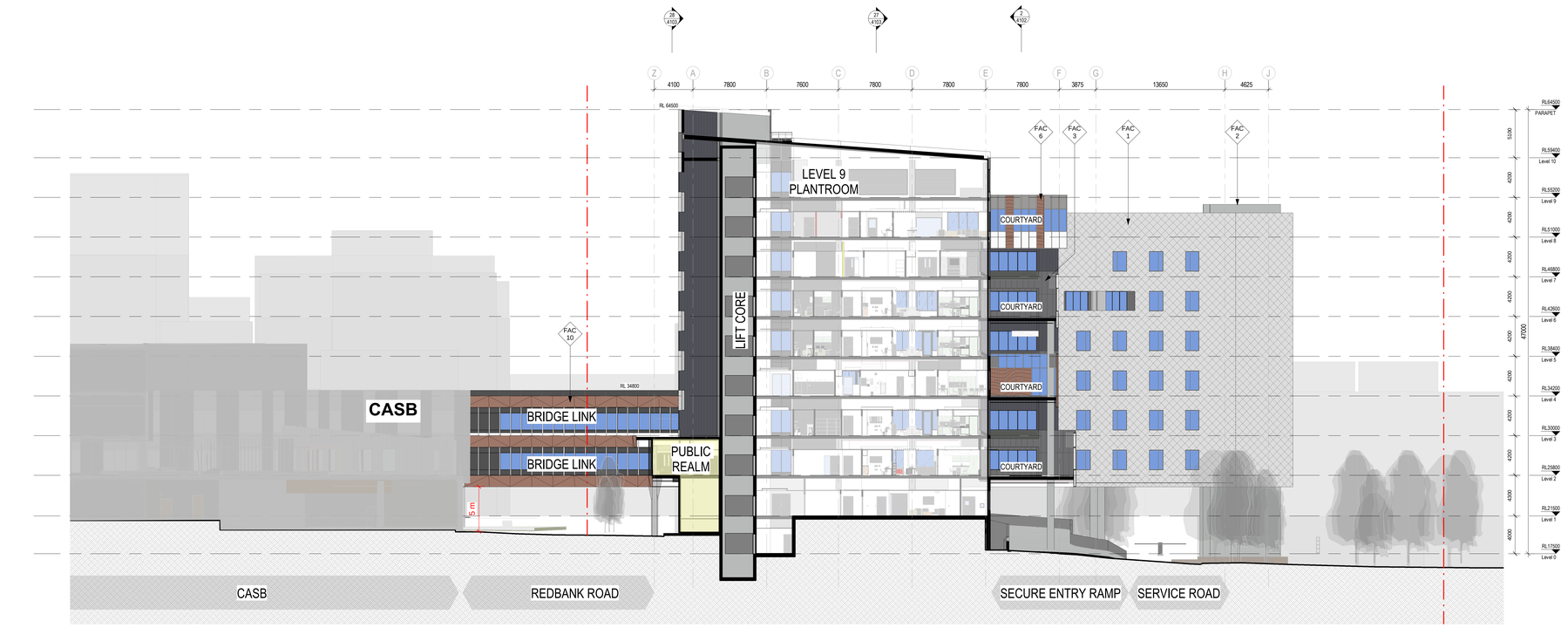
STATUS
FOR INFORMATION

DRAWN	DESIGNED
SC	**JS**
CHECKED	APPROVED
SF	**CY**

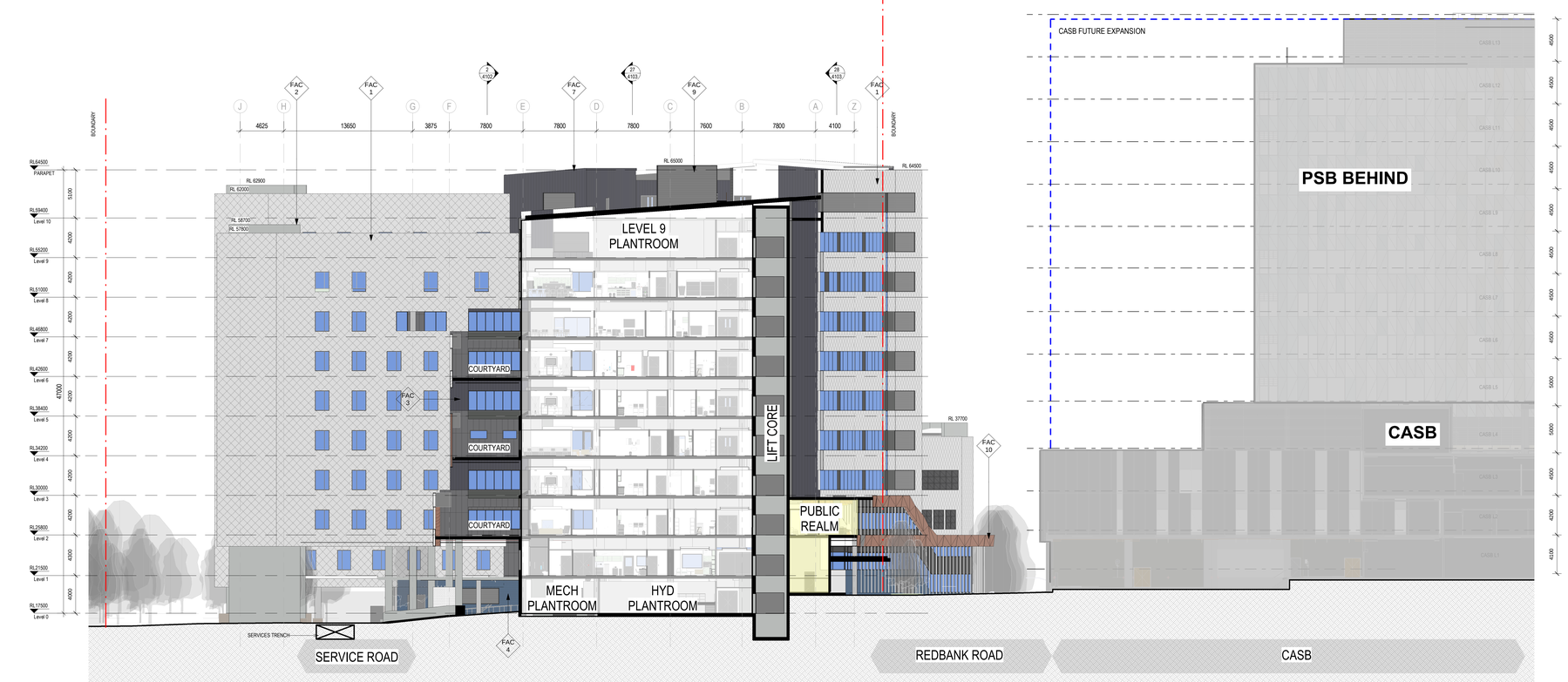
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REVISION **9**

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20 SECTIONAL ELEVATION B1 EAST
1 : 200



21 SECTIONAL ELEVATION B2 WEST
1 : 200

NOTES

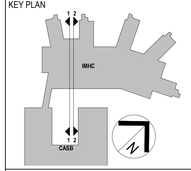
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ELEVATION LEGEND:

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FAC2	OFF-FORM CONCRETE CORE
FAC3	COURTYARD PRE-FINISHED COMPRESSED FIBRE CEMENT CLADDING
FAC4	SELECTED BRICK (LEVEL 0-1)
FAC5	CURTAIN WALL CLADDING WITH COLOURBACK SPANDREL
FAC6	COURTYARD BALUSTRADE - GLAZED & MESH
FAC7	VERTICAL CLADDING - METAL SHEETING
FAC8	FEATURE METAL PANELS - COLOUR & PRODUCT T.B.C (PRIVACY SCREEN)
FAC9	PLANT LOUVRE SCREENING
FAC10	ALUMINIUM FASCIA PANEL
FAC11	ALUMINIUM CLADDING - COLOUR & PRODUCT T.B.C (TO LINK BRIDGE)

REV	DATE	AMENDMENT
9	18/07/22	SSDA ISSUE
8	08/07/22	SSDA REVIEW ISSUE
7	03/06/22	70% DD ISSUE
6	29/04/22	ISSUE FOR INFORMATION
5	03/12/21	SD ISSUE
4	19/11/21	SD FINAL DRAFT
3	08/11/21	SD FROZEN ISSUE
2	18/10/21	ISSUE FOR INFORMATION
1	17/09/21	70% SD ISSUE

KEY PLAN



PROJECT MANAGER

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PROJECT
CUMBERLAND WEST MENTAL HEALTH SERVICES RELOCATION

PROJECT NO.
IA250300

DRAWING TITLE
SECTION - North South

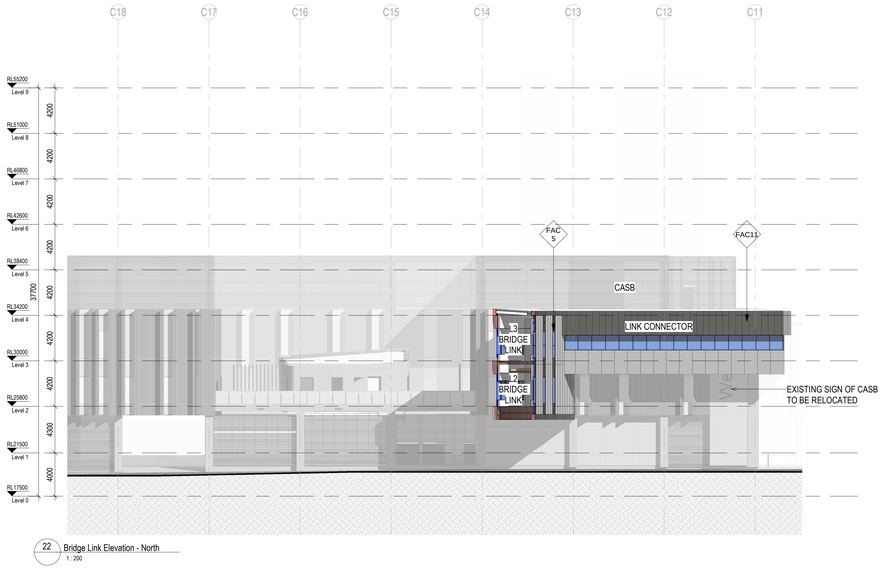
STATUS
FOR INFORMATION

DRAWN	DESIGNED
SC	JS
CHECKED	APPROVED
SF	CY

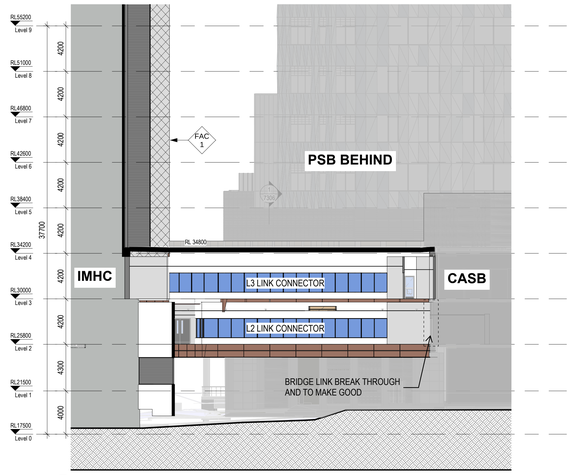
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DRAWING NO. **IMHC-AR-DG-4100**
REVISION **9**

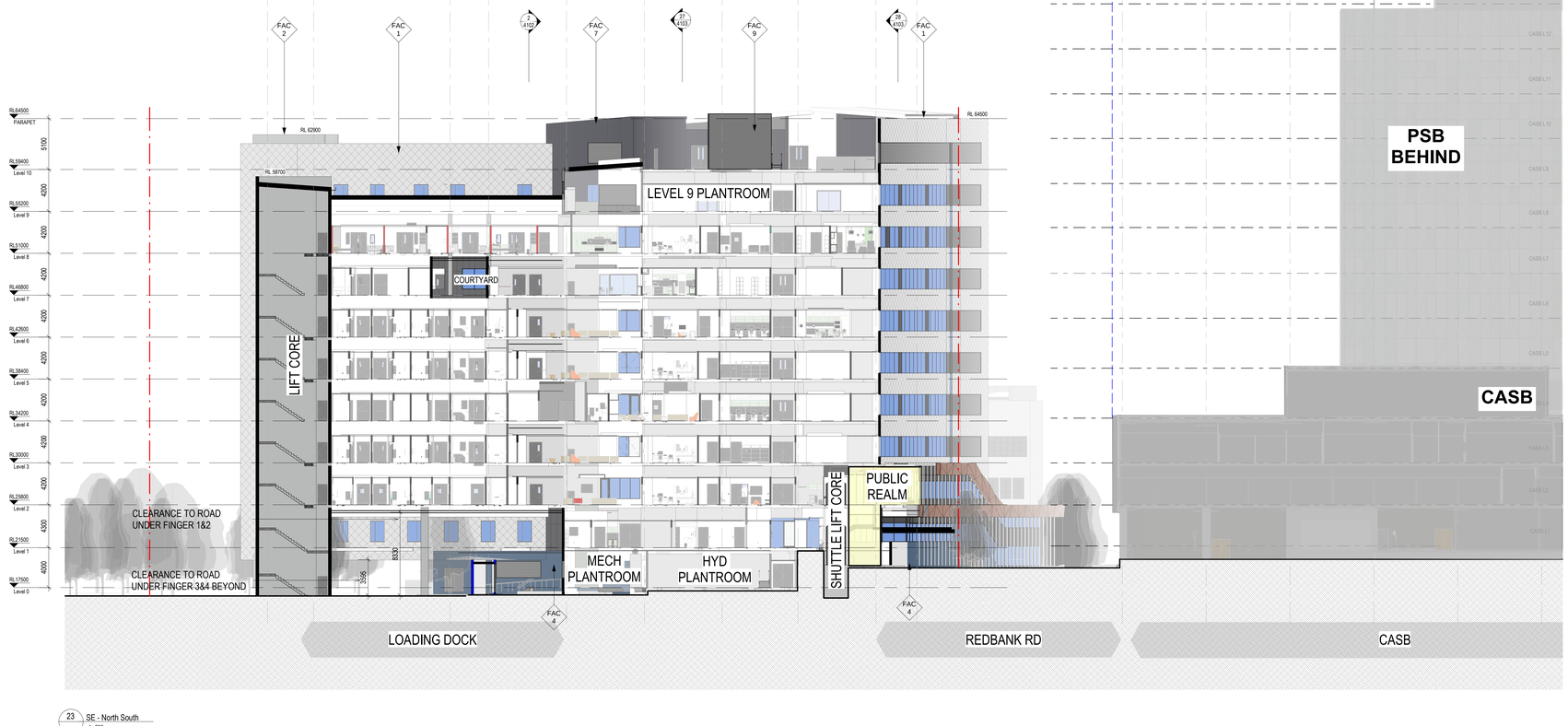
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22 Bridge Link Elevation - North
1 : 200



25 SE - Bridge Link
1 : 200



23 SE - North South
1 : 200

NOTES

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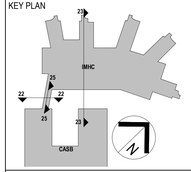
FAC1	MAIN FACADE SHINGLE ALUMINIUM CLADDING - MULTICOLOUR T.B.C
FAC2	OFF-FORM CONCRETE CORE
FAC3	COURTYARD PRE-FINISHED COMPRESSED FIBRE CEMENT CLADDING
FAC4	SELECTED BRICK (LEVEL 0-1)
FAC5	CURTAIN WALL CLADDING WITH COLOURBACK SPANDREL
FAC6	COURTYARD BALUSTRADE - GLAZED & MESH
FAC7	VERTICAL CLADDING - METAL SHEETING
FAC8	FEATURE METAL PANELS - COLOUR & PRODUCT T.B.C. (PRIVACY SCREEN)
FAC9	PLANT LOUVRE SCREENING
FAC10	ALLUMINUM FASCIA PANEL
FAC11	ALUMINIUM CLADDING - COLOUR & PRODUCT T.B.C (TO LINK BRIDGE)

GLAZING LEGEND:

GLZ1A - CLEAR SECURITY GLAZING WITH VENETIAN BLIND SEALED UNIT
GLZ1B - CLEAR SECURITY GLAZING CONSUMER AREAS
GLZ1C - NEUTRAL GREY TINT WINDOW FRAME DOUBLE GLAZED IGUS
GLZ1D - CLEAR SECURITY GLAZING

REV	DATE	AMENDMENT
9	18/07/22	SSDA ISSUE
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6	29/04/22	ISSUE FOR INFORMATION
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4	19/11/21	SD FINAL DRAFT
3	08/11/21	SD FROZEN ISSUE
2	18/10/21	ISSUE FOR INFORMATION
1	17/09/21	70% SD ISSUE

KEY PLAN



PROJECT MANAGER
CBRE

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NSW GOVERNMENT Health Infrastructure

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PROJECT
CUMBERLAND WEST MENTAL HEALTH SERVICES RELOCATION

PROJECT NO.
IA250300

DRAWING TITLE
SECTION - CASB LINK

STATUS
FOR INFORMATION

DRAWN	DESIGNED
SC	JS
CHECKED	APPROVED
SF	CY

SCALE @ A0
1 : 200

DRAWING NO. **IMHC-AR-DG-4101**
REVISION **9**

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18/07/2022 4:20:20 PM



24 COURTYARD ELEVATIONS.
1 : 200

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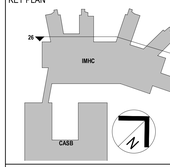
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FAC10	ALLUMINUM FASCIA PANEL
FAC11	ALUMINIUM CLADDING - COLOUR & PRODUCT T.B.C (TO LINK BRIDGE)

GLAZING LEGEND:

GLZ1A - CLEAR SECURITY GLAZING WITH VENETIAN BLIND SEALED UNIT
GLZ1B - CLEAR SECURITY GLAZING CONSUMER AREAS
GLZ1C - NEUTRAL GREY TINT WINDOW FRAME DOUBLE GLAZED IGUS
GLZ1D - CLEAR SECURITY GLAZING

REV	DATE	AMENDMENT
7	18/07/22	SSDA ISSUE
6	08/07/22	SSDA REVIEW ISSUE
5	03/06/22	70% DD ISSUE
4	29/04/22	ISSUE FOR INFORMATION
3	03/12/21	SD ISSUE
2	19/11/21	SD FINAL DRAFT
1	08/11/21	SD FROZEN ISSUE

KEY PLAN



PROJECT MANAGER
CBRE

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NSW GOVERNMENT Health Infrastructure

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PROJECT
CUMBERLAND WEST MENTAL HEALTH SERVICES RELOCATION

PROJECT NO.
IA250300

DRAWING TITLE
SECTION - NORTHERN COURTYARDS

STATUS
FOR INFORMATION

DRAWN	DESIGNED
SC	JS
CHECKED	APPROVED
SF	CY

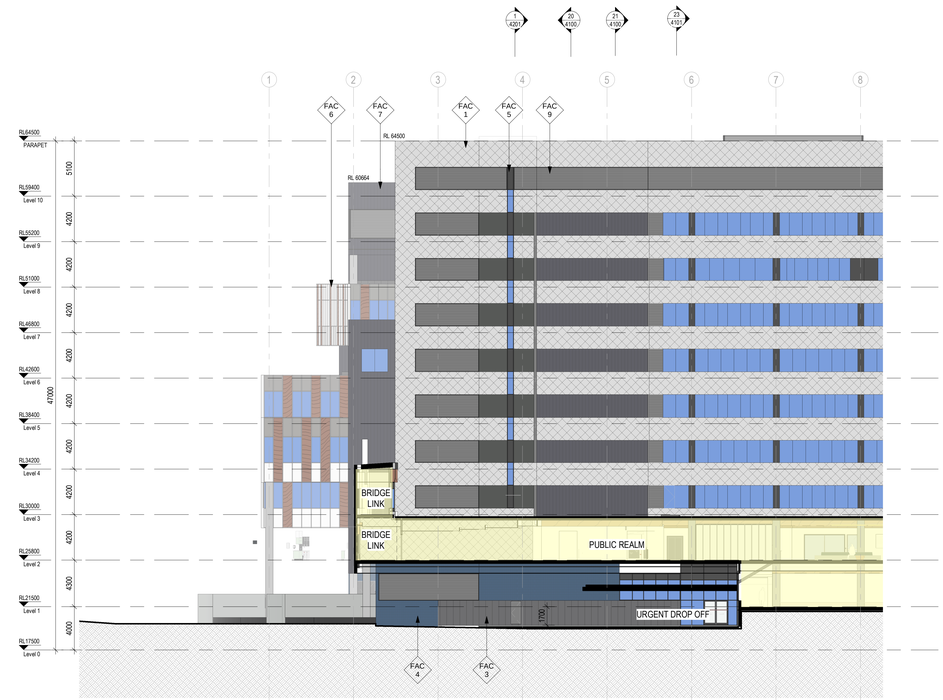
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REVISION **7**

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27 SECTION THRU AMBULANCE BAY
1 : 200



28 PUBLIC REALM SECTION
1 : 200



29 Section 29
1 : 200

NOTES

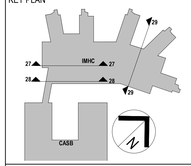
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ELEVATION LEGEND:

FAC1	MAIN FACADE SHINGLE ALUMINIUM CLADDING - MULTICOLOUR T.B.C
FAC2	OFF-FORM CONCRETE CORE
FAC3	COURTYARD PRE-FINISHED COMPRESSED FIBRE CEMENT CLADDING
FAC4	SELECTED BRICK (LEVEL 0-1)
FAC5	CURTAIN WALL CLADDING WITH COLOURBACK SPANDREL
FAC6	COURTYARD BALUSTRADE - GLAZED & MESH
FAC7	VERTICAL CLADDING - METAL SHEETING
FAC8	FEATURE METAL PANELS - COLOUR & PRODUCT T.B.C (PRIVACY SCREEN)
FAC9	PLANT LOUVRE SCREENING
FAC10	ALLUMINUM FASCIA PANEL
FAC11	ALUMINUM CLADDING - COLOUR & PRODUCT T.B.C (TO LINK BRIDGE)

REV	DATE	AMENDMENT
8	18/07/22	SSDA ISSUE
7	08/07/22	SSDA REVIEW ISSUE
6	03/06/22	70% DD ISSUE
5	29/04/22	ISSUE FOR INFORMATION
4	03/12/21	SD ISSUE
3	19/11/21	SD FINAL DRAFT
2	08/11/21	SD FROZEN ISSUE
1	18/10/21	ISSUE FOR INFORMATION

KEY PLAN



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PROJECT
CUMBERLAND WEST MENTAL HEALTH SERVICES RELOCATION

PROJECT NO.
IA250300

DRAWING TITLE
SECTION - ENTRY & CORRIDOR

STATUS

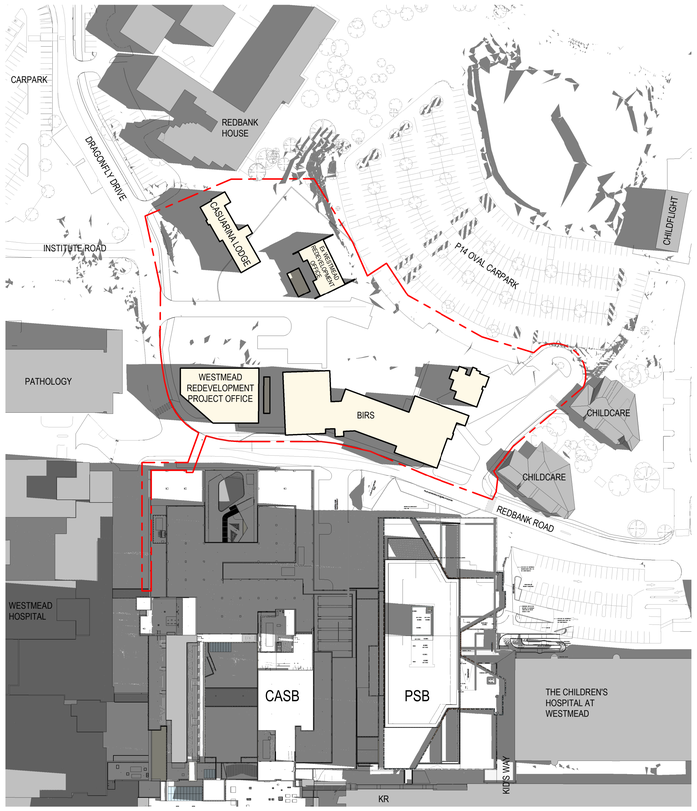
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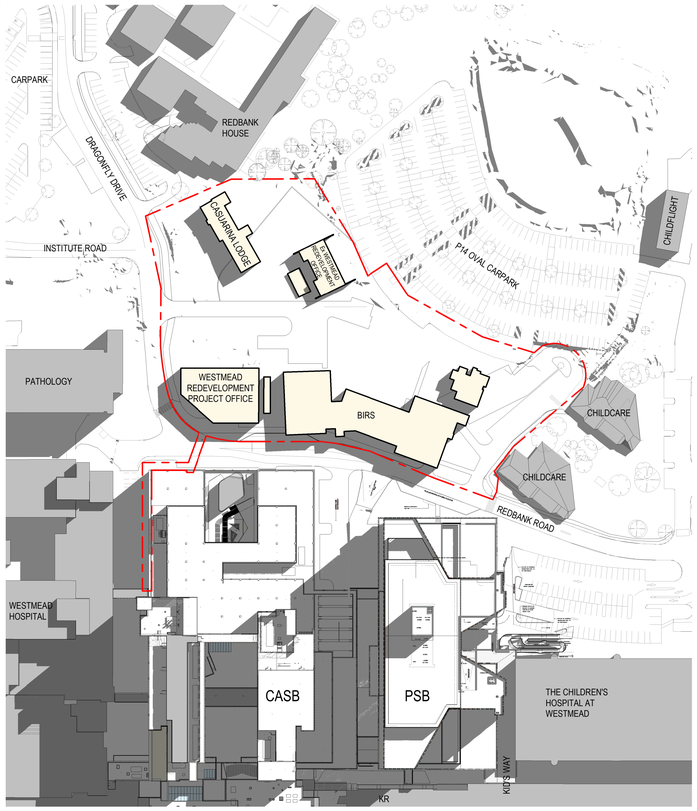
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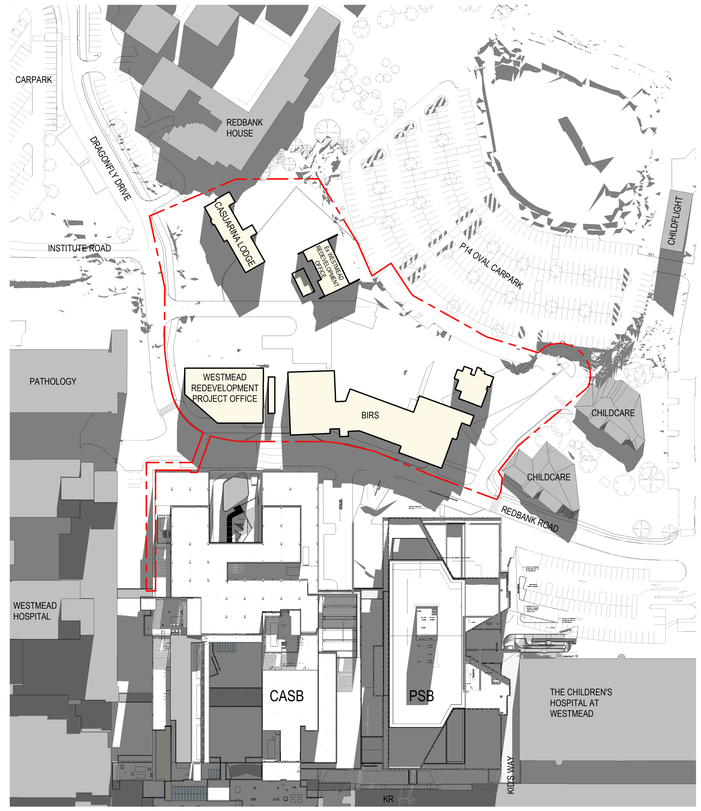
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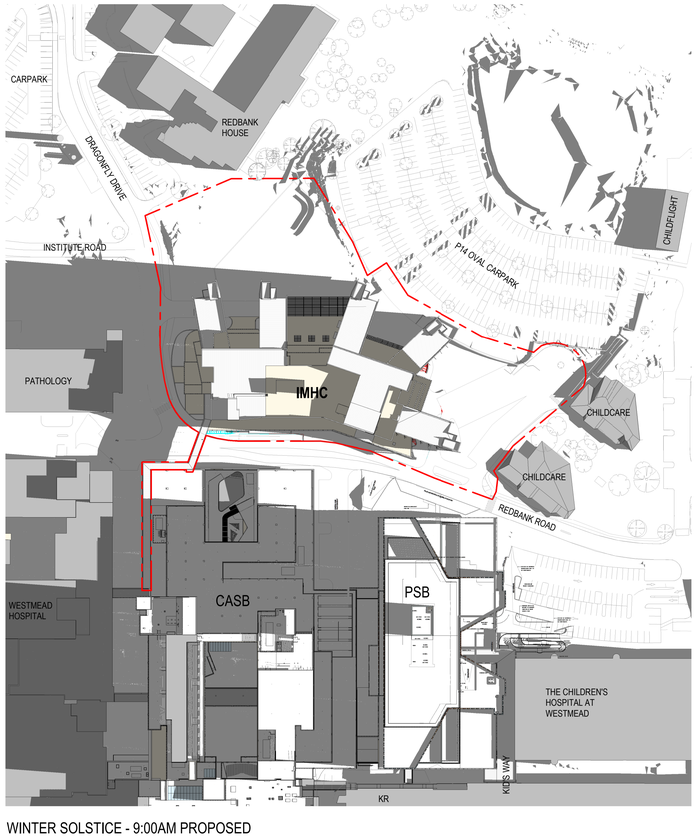
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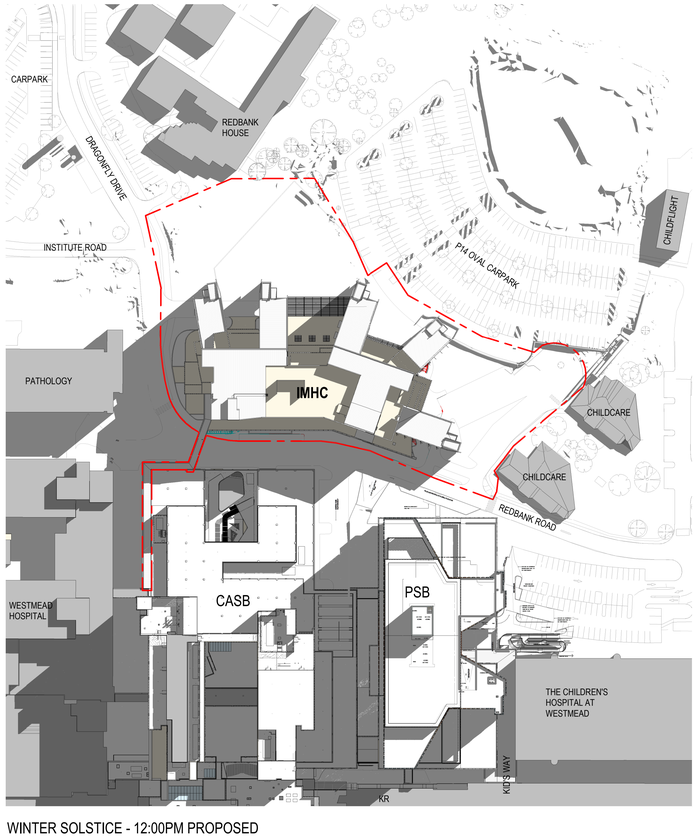
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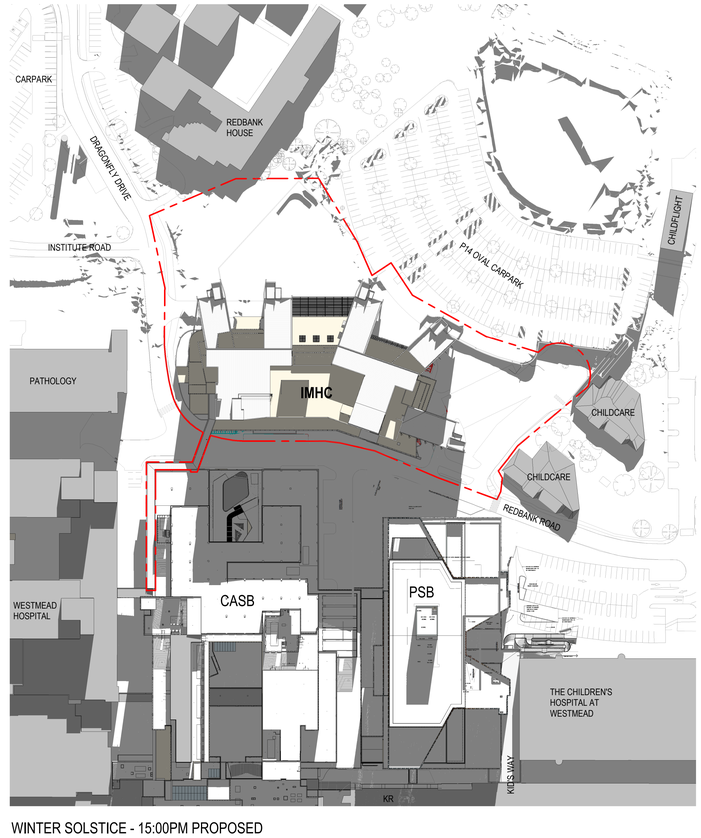
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WINTER SOLSTICE - 9:00AM PROPOSED



WINTER SOLSTICE - 12:00PM PROPOSED



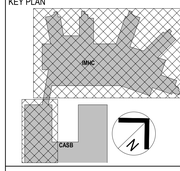
WINTER SOLSTICE - 15:00PM PROPOSED

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REV	DATE	AMENDMENT
2	19/07/22	SSDA ISSUE
1	06/07/22	SSDA REVIEW ISSUE

KEY PLAN



PROJECT MANAGER

CBRE

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PROJECT
CUMBERLAND WEST MENTAL HEALTH SERVICES RELOCATION

PROJECT NO.
IA250300

DRAWING TITLE
SHADOW DIAGRAM WINTER

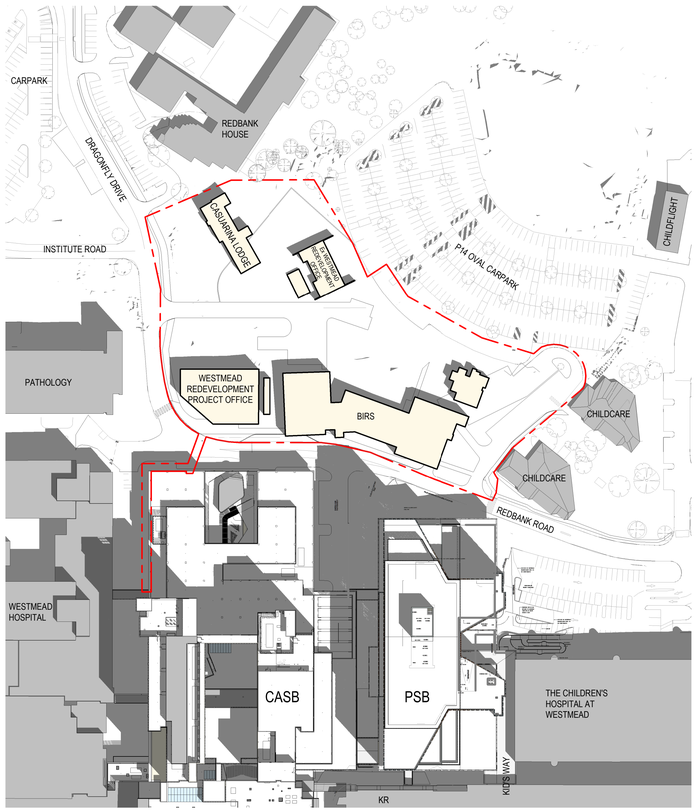
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FOR INFORMATION

DRAWN	DESIGNED
RS/EF/CT	AC
CHECKED	APPROVED
AC/CY	CY

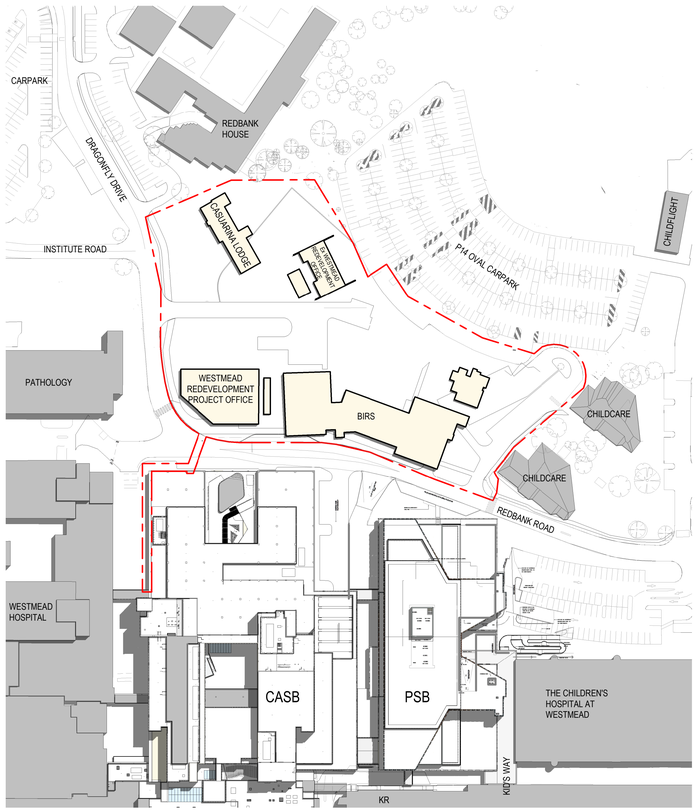
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REVISION **2**

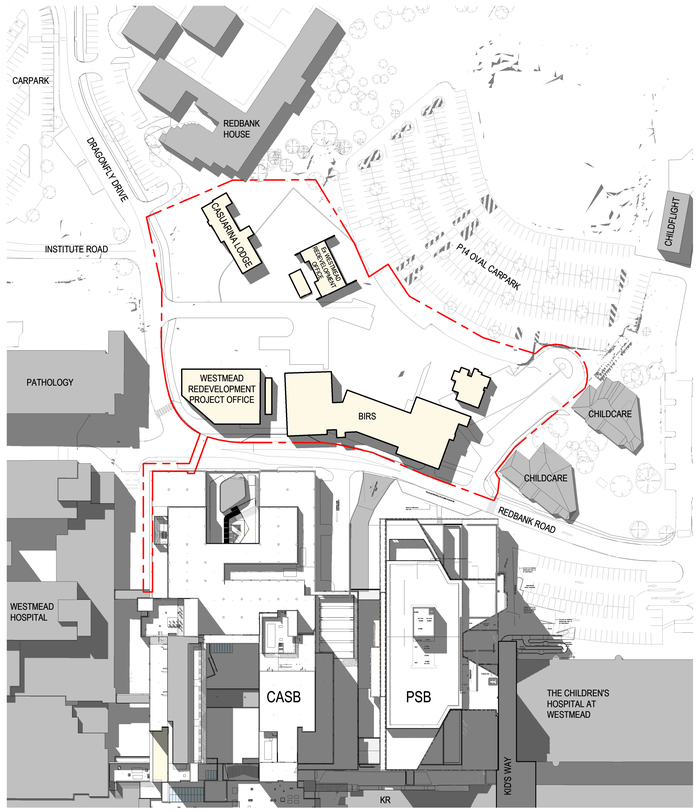
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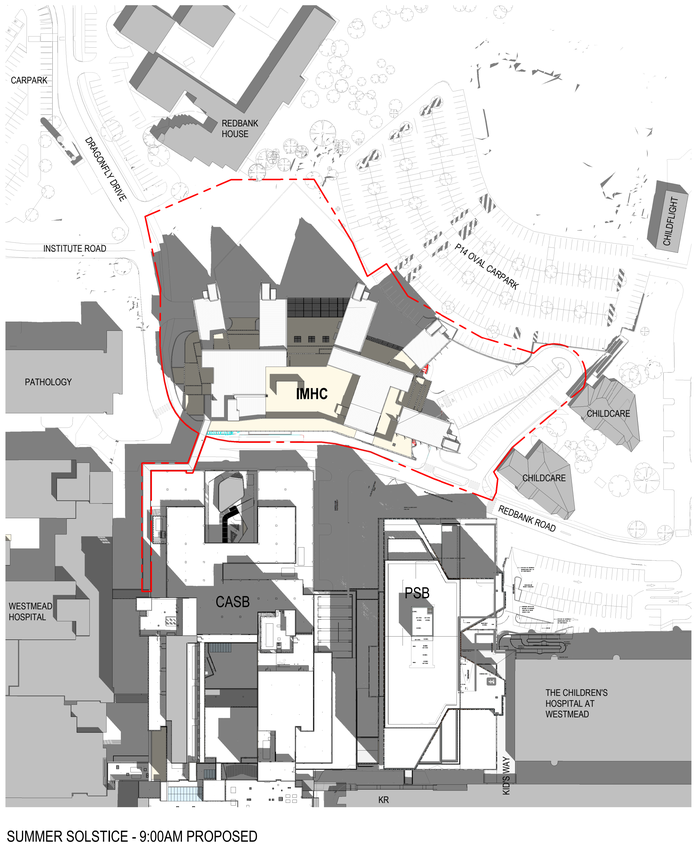
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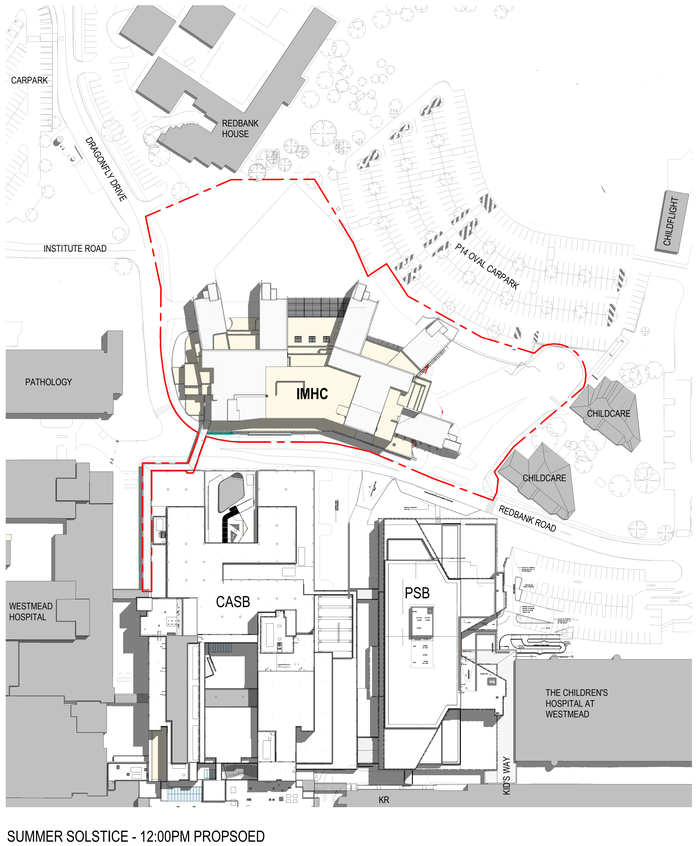
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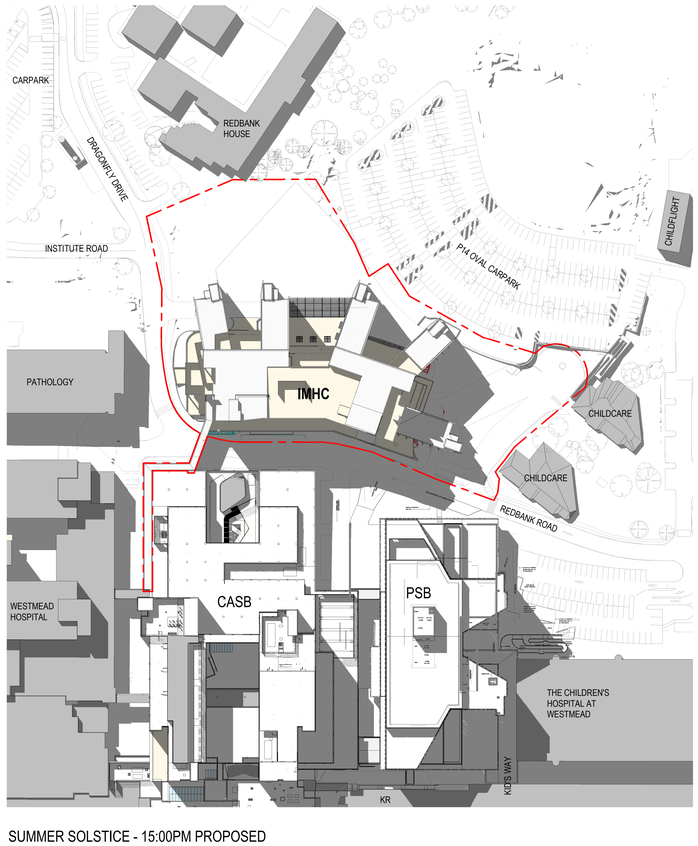
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SUMMER SOLSTICE - 9:00AM PROPOSED



SUMMER SOLSTICE - 12:00PM PROPSOED



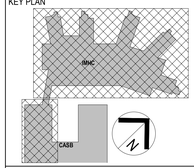
SUMMER SOLSTICE - 15:00PM PROPOSED

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REV	DATE	AMENDMENT
2	19/07/22	SSDA ISSUE
1	06/07/22	SSDA REVIEW ISSUE

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PROJECT MANAGER

CBRE

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PROJECT
CUMBERLAND WEST MENTAL HEALTH SERVICES RELOCATION

PROJECT NO.
IA250300

DRAWING TITLE
SHADOW DIAGRAM SUMMER

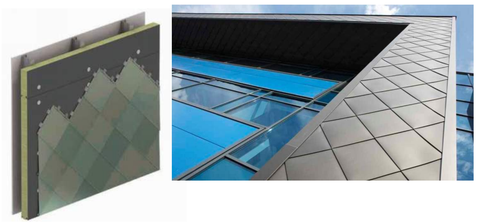
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FOR INFORMATION

DRAWN	DESIGNED
RS/EF/CT	AC
CHECKED	APPROVED
AC/CY	CY

SCALE @ A0
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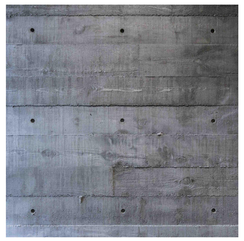
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REVISION **2**

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FAC1

ALUMINIUM SHINGLE PANELS
600X600 PANEL
USAGE: BUILDING FINGERS



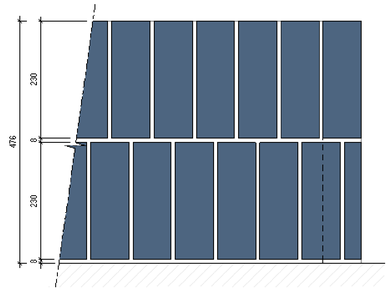
FAC2

OFF FORM CONCRETE
USAGE: STAIR CORES



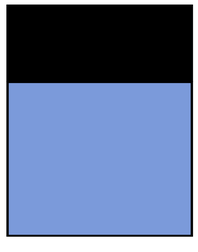
FAC3

COLOURED CFC SHEET
USAGE: COURTYARDS



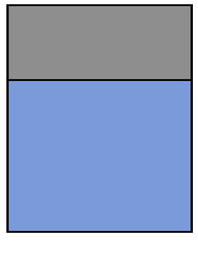
FAC4

SELECTED BRICK
USAGE: BASE OF BUILDING



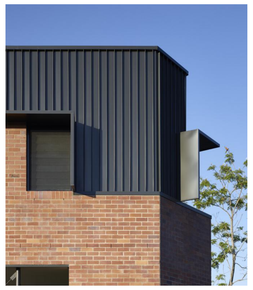
FAC5

CURTAIN WALL CLADDING WITH COLOURBACK SPANDREL
USAGE: SOUTHERN FACADE AND CORRIDOR ENDS



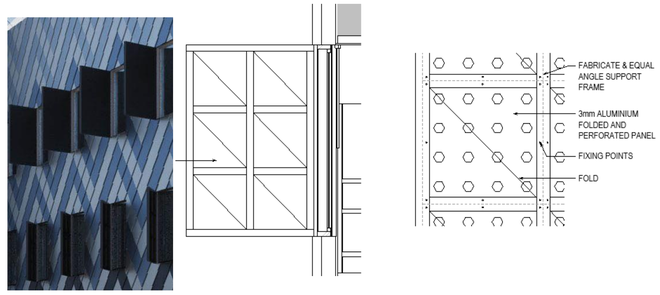
FAC6

BALUSTRADE GLAZED & FINE MESH
USAGE: COURTYARD BALUSTRADES



FAC7

LONG LINE METAL SHEET PANELS
USAGE: MAIN BODY OF BUILDING AND PLANTROOMS



FAC8

FEATURE METAL PANELS
USAGE: PRIVACY SCREENS



FAC9

PLANT LOUVRE SCREENING
USAGE: PLANTROOM



FAC10

ALUMINIUM FASCIA PANEL
USAGE: SOUTHERN ELEVATION



FAC11

ALUMINIUM CLADDING
USAGE: LINK BRIDGE



MR1

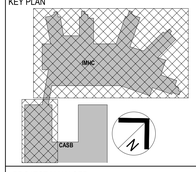
KLIP LOK ROOF CLADDING SHEET
USAGE: ROOF

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REV.	DATE	AMENDMENT
1	08.07.22	SSDA REVIEW ISSUE

KEY PLAN



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PROJECT
CUMBERLAND WEST MENTAL HEALTH SERVICES RELOCATION

PROJECT NO.
IA250300

DRAWING TITLE
MATERIAL BOARD

STATUS
FOR INFORMATION

DRAWN	DESIGNED
RS	JS
CHECKED	APPROVED
SF/JS/RG	CY

SCALE @ A0
1 : 200

DRAWING NO. **IMHC-AR-DG-7910**
REVISION **1**

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29/06/2022 3:49:41 PM

Appendix B: Unexpected Finds Protocol

BE AWARE
UNEXPECTED HAZARDS MAY BE PRESENT



drums



asbestos



chemical bottles



odour



ash / slag



demolition waste

if you <u>SEE</u> or <u>SMELL</u> anything unusual

<u>STOP WORK</u> & contact the Site Foreman

do not restart working before the area has been investigated and cleared by an Environmental Consultant

Appendix C: Summary Tables

Table A - Summary of Soil Analytical Results (JBS&G 2021)
Project Number: 56200
Project Name: Westmead Children's Hospital Stage 2 DSI

JBS&G

Field ID	Fill/Natural	Date / Parent	SampleCode	Report #	Metals & Metalloids									TPHs (NEPC 1999)					TRHs (NEPC 2013)						
					Arsenic (Total)	Cadmium	Chromium (Total)	Copper	Iron (%)	Lead	Mercury (Inorganic)	Nickel	Zinc	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Total)	>C10-C16 Fraction	>C16-C34 Fraction	>C34-C40 Fraction	>C10-C40 Fraction (Total)	>C10-C16 less Naphthalene (F2)	C6-C10 Fraction	C6-C10 less BTEX (F1)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					2	0.4	1	1	1	1	0.1	1	1	20	20	50	50	50	50	100	100	50	50	20	20
NEPM 2013 EIL, EILs Aged Sediment					100			130		110		170	270												
NEPM 2013 ESL Urban Residential and Public Open Space, Fine Soil																				1300	5600		120		180
NEPM 2013 HSL Asbestos in Soil - Bonded ACM - Residential - HSL B																									
NEPM 2013 HSL Asbestos in Soil - FA & AF - HSL																									
NEPM 2013 Mgnt Limits - Residential, Parkland and Public Open Space, Fine																			1000	3500	10000			800	
NEPM 2013 Soil HIL B					500	150	500	30000		1200	120	1200	60000												
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 0 to <1m																							280		50
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 1 to <2m																							NL		90
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 2 to <4m																							NL		150
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 4m+																							NL		290
BH01 0.1-1.0	Fill	27/04/2019	S19-Ap38901	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH01 0.2-0.3	Fill	27/04/2019	M19-Ap39517	652879	7.6	<0.4	15	42	-	33	<0.1	21	66	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20
BH01 1.0-2.0	Fill	27/04/2019	S19-Ap38902	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH01 1.9-2.0	Fill	27/04/2019	M19-Ap39518	652879	5.6	<0.4	19	49	-	28	<0.1	24	88	<20	<20	<50	74	74	<50	<100	<100	<100	<50	<20	<20
BH01 2.0-3.0	Fill	27/04/2019	S19-Ap38903	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH01 5.3-5.6	Natural	27/04/2019	M19-Ap39519	652879	-	-	-	-	37000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 0.1-0.3	Fill	27/04/2019	M19-Ap39520	652879	6	<0.4	25	21	-	17	<0.1	21	48	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20
BH02 0.1-0.3	Fill	27/04/2019	S19-Ap38904	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 0.4-1.0	Fill	27/04/2019	S19-Ap38905	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 1.0-2.0	Fill	27/04/2019	S19-Ap38906	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 2.0-3.0	Fill	27/04/2019	S19-Ap38986	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 2.9-3.0	Fill	27/04/2019	M19-Ap39521	652879	15	<0.4	43	24	-	43	<0.1	11	94	<20	<20	56	83	139	<50	110	<100	110	<50	<20	<20
BH02 3.0-4.0	Fill	27/04/2019	S19-Ap38911	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03 1.0-2.0	Fill	27/04/2019	S19-Ap38909	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03 3.0-4.0	Fill	27/04/2019	S19-Ap38910	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03 3.9-4.0	Fill	27/04/2019	M19-Ap39522	652879	11	<0.4	36	82	-	40	<0.1	45	440	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20
BH03 4.5-5.5	Fill	27/04/2019	S19-Ap38912	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03 4.6-4.7	Fill	27/04/2019	M19-Ap39523	652879	26	<0.4	36	29	-	44	<0.1	9.1	94	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20
BH04 0.1-1.0	Fill	27/04/2019	S19-Ap38913	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QA1	Fill	BH04 0.1-1.0	S19-Ap38969	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QC1	Fill	BH04 0.1-1.0	216396-6	216396	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04 0.4-0.5	Fill	27/04/2019	M19-Ap39524	652879	7	<0.4	48	56	-	19	<0.1	120	88	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20
QA1	Fill	BH04 0.4-0.5	M19-Ap39554	652879	6.5	<0.4	47	56	-	19	<0.1	130	97	<20	<20	<50	62	62	<50	<100	<100	<100	<50	<20	<20
QC1	Fill	BH04 0.4-0.5	216396-1	216396	5	<0.4	78	43	-	10	<0.1	77	51	<25	<50	<100	<100	-	<50	<100	<100	<50	<50	<25	<25
BH04 3.0-4.0	Fill	27/04/2019	S19-Ap38914	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04 4.2-4.8	Fill	27/04/2019	S19-Ap38915	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04 4.6-4.8	Natural	27/04/2019	M19-Ap39525	652879	15	<0.4	54	26	-	42	<0.1	16	80	<20	<20	220	76	296	<50	270	<100	270	<50	<20	<20
BH05 0.05-1.0	Fill	27/04/2019	S19-Ap38916	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05 1.0-2.0	Fill	27/04/2019	S19-Ap38917	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05 1.9-2.0	Fill	27/04/2019	M19-Ap39526	652879	4.4	<0.4	13	48	-	9.2	<0.1	51	120	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20
BH05 2.0-2.5	Fill	27/04/2019	S19-Ap38918	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH06 0.05-0.8	Fill	27/04/2019	S19-Ap38919	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QA2	Fill	BH06 0.05-0.8	S19-Ap38970	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QC2	Fill	BH06 0.05-0.8	216396-7	216396	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH06 0.1-0.3	Fill	27/04/2019	M19-Ap39527	652879	7.8	<0.4	24	37	-	43	<0.1	34	96	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20
QA2	Fill	BH06 0.1-0.3	M19-Ap39555	652879	7.7	<0.4	20	40	-	38	<0.1	30	74	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20
QC2	Fill	BH06 0.1-0.3	216396-2	216396	<4	<0.4	9	18	-	20	<0.1	15	34	<25	<50	<100	<100	-	<50	<100	<100	<50	<50	<25	<25
BH06 0.8-1.5	Fill	27/04/2019	S19-Ap38920	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH06 1.8-2.0	Fill	27/04/2019	S19-Ap38921	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 0.9-1.0	Fill	27/04/2019	M19-Ap39528	652879	15	<0.4	19	42	-	50	0.4	22	95	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20
QA3	Fill	BH07 0.9-1.0	M19-Ap39556	652879	17	<0.4	27	43	-	53	0.4	22	87	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20
QC3	Fill	BH07 0.9-1.0	216396-3	216396	12	<0.4	15	37	-	36	0.6	16	64	<25	<50	<100	<100	-	<50	<100	<100	<50	<50	<25	<25
BH07 1.0-2.0	Fill	27/04/2019	S19-Ap38922	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QA3	Fill	BH07 1.0-2.0	S19-Ap38971	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QC3	Fill	BH07 1.0-2.0	216396-8	216396	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 2.0-3.0	Fill	27/04/2019	S19-Ap38928	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 3.8-4.5	Fill	27/04/2019	S19-Ap38924	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 4.6-4.8	Natural	27/04/2019	M19-Ap39529	652879	17	<0.4	48	26	-	39	<0.1	11	40	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20
BH08 0.2-1.0	Fill	27/04/2019	S19-Ap38925	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH08 1.0-2.0	Fill	27/04/2019	S19-Ap38926	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH08 1.9-2.0	Fill	27/04/2019	M19-Ap39530	652879	8.8	<0.4	36	44	-	32	<0.1	44	120	<20	<20	60	<50	60	<50	<100	<100	<100	<50	<20	<20
BH08 2.0-3.0	Fill	27/04/2019	S19-Ap38927	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09 0.05-1.0	Fill	27/04/2019	S19-Ap38929	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09 1.0-2.0	Fill	27/04/2019	S19-Ap38930	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09 3.4-3.5	Fill	27/04/2019	M19-Ap39968	652879	16	<0.4	34	18	-	26	<0.1	11	73	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20
BH10 0.15-1.0	Fill	27/04/2019	S19-Ap38933	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10 0.4-0.5	Fill	27/04/2019	M19-Ap39532	652879	8.8	<0.4	20	55	-	30	<0.1	43	110	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20
BH10 1.0-1.5	Fill	27/04/2019	S19-Ap38934	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 0.15-0.3	Fill	27/04/2019	M19-Ap39533	652879	5.7	<0.4	36	52	-	19	<0.1	95	67	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20
BH11 0.15-1.0	Fill	27/04/2019	S19-Ap38935	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 1.0-2.0	Fill	27/04/2019	S19-Ap38995	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 3.6-3.8	Fill	27/04/2019	M19-Ap39535	652879	12	0.9	35	28	-	34	<0.1	9.9	62	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20
BH11 3.6-4.2	Fill	27/04/2019	S19-Ap38937	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 4.2-4.4	Natural	27/04/2019	M19-Ap39536	652879	13	<0.4	38	24	52000	29	<0.1	7.5	45	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20
BH12 0.1-1.0	Fill	27/04/2019	S19-Ap38938	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12 1.0-2.0	Fill	27/04/2019	S19-Ap38939	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12 1.9-2.0	Fill	27/04/2019	M19-Ap39537	652879	9.3	<0.4	20	47	-	32	<0.1	17	62	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20
BH12 2.0-3.0	Fill	27/04/2019	S19-Ap38940	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 0.15-1.0	Fill	28/04/2019	S19-Ap38941	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QA4	Fill	BH13 0.15-1.0	S19-Ap38972	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QC4	Fill	BH13 0.15-1.0	216396-9	216396	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 0.4-0.5	Fill	28/04/2019	M19-Ap39538	652879	16	<0.4	17	54	-	42	0.1	30	110	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20
BH13 1.0-2.0	Fill	28/04/2019	S19-Ap38942	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 2.0-2.4	Fill	28/04/2019	S19-Ap38943	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 0.1-1.0	Fill	28/04/2019	S19-Ap38944	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 0.9-1.0	Fill	28/04/2019	M19-Ap39539	652879	9.6	<0.4	16	26	-	25	<0.1	13	39	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20
BH14 1.0-2.0	Fill	28/04/2019	S19-Ap38945	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 2.0-2.9	Fill	28/04/2019	S19-Ap38946	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15 0.1-0.3	Fill	28/04/2019	M19-Ap39540	652879	9	1.1	21	35	-	37	<0.1	21	100	<20	46	350	410	806	71	630	290	991	71	<20	<20
BH15 0.1-0.3	Fill	28/04/2019	S19-Ap38947	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15 0.3-1.0	Fill	28/04/2019	S19-Ap38948	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15 1.0-2.0	Fill	28/04/2019	S19-Ap38949	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15 2.6-2.7	Fill	28/04/2019	M19-Ap39541	652879	12	<0.4	36	21	-	31	<0.1	11	30	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20
BH16 0.2-0.5	Fill	28/04/2019	S19-Ap38950	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16 0.5-1.5	Fill	28/04/2019	S19-Ap38951	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16 1.4-1.5	Fill	28/04/2019	M19-Ap39542	652879	9.1	<0.4	13	33	-	25	<0.1	8.9	32	<20	<20	78	<50	78	<50	110	<100	110	<50	<20	<20
BH16 1.5-2.4	Fill	28/04/2019	S19-Ap38952	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 0.1-0.4	Fill	28/04/2019	S19-Ap38953	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 0.4-0.5	Fill	28/04/2019	M19-Ap39543	652879	10	<0.4	16	41	-	46	<0.1	17	91	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20
BH17 0.4-1.4	Fill	28/04/2019	S19-Ap38954	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QA5	Fill	BH17 0.4-1.4	S19-Ap38973	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QC5	Fill	BH17 0.4-1.4	216396-10	216396	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 1.4-1.8	Fill	28/04/2019	S19-Ap38955	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 1.8-2.0	Natural	28/04/2019	M19-Ap39544	652879	16	<0.4	32	28	-	31	<0.1	9.9	42	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20
QA5	Natural	BH17 1.8-2.0	M19-Ap39557	652879	19	<0.4	37	34	-	41	<0.1	11	47	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20

Field ID	BTEXN							Polycyclic Aromatic Hydrocarbons																					
	Benzene	Ethylbenzene	Toluene	Xylene (o)	Xylene (m & p)	Xylene (Total)	Naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (lower bound)*	Benzo(a)pyrene TEQ (medium bound)*	Benzo(a)pyrene TEQ (upper bound)*	Benzo(b,j)fluoranthene	Benzo(b,j+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Carcinogenic PAHs as B(a)P TEQ	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Phenanthrene	PAHs (Total)	Pyrene	Total Positive PAHs
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.05	0.5	0.5	0.5	0.5		0.1	0.5	0.1	0.1		0.1	0.1	0.1	0.1	0.5	0.1	
NEPM 2013 EIL, EILs Aged Sediment							170																						
NEPM 2013 ESL Urban Residential and Public Open Space, Fine Soil	65	125	105			45						0.7																	
NEPM 2013 HSL Asbestos in Soil - Bonded ACM - Residential - HSL B																													
NEPM 2013 HSL Asbestos in Soil - FA & AF - HSL																													
NEPM 2013 Mgnt Limits - Residential, Parkland and Public Open Space, Fine																													
NEPM 2013 Soil HIL B													4	4	4							4					400		
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 0 to <1m	0.7	NL	480			110	5																						
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 1 to <2m	1	NL	NL			310	NL																						
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 2 to <4m	2	NL	NL			NL	NL																						
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 4m+	3	NL	NL			NL	NL																						
BH01 0.1-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH01 0.2-0.3	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
BH01 1.0-2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH01 1.9-2.0	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
BH01 2.0-3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH01 5.3-5.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 0.1-0.3	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
BH02 0.1-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 0.4-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 1.0-2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 2.0-3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 2.9-3.0	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
BH02 3.0-4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03 1.0-2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03 3.0-4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03 3.9-4.0	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
BH03 4.5-5.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03 4.6-4.7	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
BH04 0.1-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QA1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QC1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04 0.4-0.5	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
QA1	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
QC1	<0.2	<1	<0.5	<1	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.5	<0.5	<0.5	-	<0.2	<0.1	-	<0.1	<0.1	<0.172[#2]	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.05
BH04 3.0-4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04 4.2-4.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04 4.6-4.8	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
BH05 0.05-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05 1.0-2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05 1.9-2.0	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
BH05 2.0-2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH06 0.05-0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QA2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QC2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH06 0.1-0.3	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
QA2	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
QC2	<0.2	<1	<0.5	<1	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.5	<0.5	<0.5	-	<0.2	<0.1	-	<0.1	<0.1	<0.172[#2]	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.05
BH06 0.8-1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH06 1.8-2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 0.9-1.0	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
QA3	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
QC3	<0.2	<1	<0.5	<1	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.1	0.08	<0.5	<0.5	<0.5	-	<0.2	<0.1	-	0.2	<0.1	0.1425[#1]	0.2	<0.1	<0.1	0.2	-	0.2	0.76
BH07 1.0-2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QA3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QC3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 2.0-3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 3.8-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 4.6-4.8	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
BH08 0.2-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH08 1.0-2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH08 1.9-2.0	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
BH08 2.0-3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09 0.05-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09 1.0-2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09 3.4-3.5	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
BH10 0.15-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10 0.4-0.5	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
BH10 1.0-1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 0.15-0.3	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
BH11 0.15-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 1.0-2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 3.6-3.8	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
BH11 3.6-4.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 4.2-4.4	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
BH12 0.1-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12 1.0-2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12 1.9-2.0	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
BH12 2.0-3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 0.15-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QA4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QC4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 0.4-0.5	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
BH13 1.0-2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 2.0-2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 0.1-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 0.9-1.0	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
BH14 1.0-2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 2.0-2.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15 0.1-0.3	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
BH15 0.1-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15 0.3-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15 1.0-2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15 2.6-2.7	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
BH16 0.2-0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16 0.5-1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16 1.4-1.5	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
BH16 1.5-2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 0.1-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 0.4-0.5	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
BH17 0.4-1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QA5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QC5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 1.4-1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 1.8-2.0	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
QA5	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-

Field ID	Organochlorine Pesticides																					
	4,4-DDE	Aldrin	Aldrin + Dieldrin (Sum of Total)	alpha-BHC	alpha-Chlordane	beta-BHC	Chlordane	DDD	DDT	Dieldrin	DDT+DDE+DDD (Sum of Total)	delta-BHC	Endosulfan alpha	Endosulfan beta	Endosulfan sulphate	Endrin	gamma-Chlordane	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor Epoxide	Lindane
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		0.05	0.05	0.05	0.05	0.05
NEPM 2013 EIL, EILs Aged Sediment									180													
NEPM 2013 ESL Urban Residential and Public Open Space, Fine Soil																						
NEPM 2013 HSL Asbestos in Soil - Bonded ACM - Residential - HSL B																						
NEPM 2013 HSL Asbestos in Soil - FA & AF - HSL																						
NEPM 2013 Mgnt Limits - Residential, Parkland and Public Open Space, Fine																						
NEPM 2013 Soil HIL B			10				90				600					20				10		
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 0 to <1m																						
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 1 to <2m																						
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 2 to <4m																						
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 4m+																						
BH01 0.1-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH01 0.2-0.3	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH01 1.0-2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH01 1.9-2.0	<0.05	<0.05	<0.05	<0.05	-	<0.05	0.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH01 2.0-3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH01 5.3-5.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 0.1-0.3	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH02 0.1-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 0.4-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 1.0-2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 2.0-3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 2.9-3.0	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH02 3.0-4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03 1.0-2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03 3.0-4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03 3.9-4.0	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH03 4.5-5.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03 4.6-4.7	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH04 0.1-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QA1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QC1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04 0.4-0.5	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
QA1	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
QC1	<0.1	<0.1	<0.2[#39]	<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
BH04 3.0-4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04 4.2-4.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04 4.6-4.8	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH05 0.05-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05 1.0-2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05 1.9-2.0	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH05 2.0-2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH06 0.05-0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QA2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QC2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH06 0.1-0.3	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
QA2	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
QC2	<0.1	<0.1	<0.2[#39]	<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
BH06 0.8-1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH06 1.8-2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 0.9-1.0	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
QA3	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
QC3	<0.1	<0.1	<0.2[#39]	<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
BH07 1.0-2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QA3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QC3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 2.0-3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 3.8-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 4.6-4.8	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH08 0.2-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH08 1.0-2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH08 1.9-2.0	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH08 2.0-3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09 0.05-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09 1.0-2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09 3.4-3.5	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH10 0.15-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10 0.4-0.5	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH10 1.0-1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 0.15-0.3	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH11 0.15-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 1.0-2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 3.6-3.8	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH11 3.6-4.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 4.2-4.4	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH12 0.1-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12 1.0-2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12 1.9-2.0	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH12 2.0-3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 0.15-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QA4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QC4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 0.4-0.5	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH13 1.0-2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 2.0-2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 0.1-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 0.9-1.0	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH14 1.0-2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 2.0-2.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15 0.1-0.3	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH15 0.1-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15 0.3-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15 1.0-2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15 2.6-2.7	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH16 0.2-0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16 0.5-1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16 1.4-1.5	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH16 1.5-2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 0.1-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 0.4-0.5	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH17 0.4-1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QA5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QC5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 1.4-1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 1.8-2.0	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
QA5	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05

Table A - Summary of Soil Analytical Results (JBS&G 2021)
Project Number: 56200
Project Name: Westmead Children's Hospital Stage 2 DSI

					Metals & Metalloids									TPHs (NEPC 1999)					TRHs (NEPC 2013)							BTEXN							Polycyclic Aromatic Hydrocarbons																						Organochlorine Pesticides																					
					Arsenic (Total)	Cadmium	Chromium (Total)	Copper	Iron (%)	Lead	Mercury (Inorganic)	Nickel	Zinc	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Total)	>C10-C16 Fraction	>C16-C34 Fraction	>C34-C40 Fraction	>C10-C40 Fraction (Total)	>C10-C16 less Naphthalene (F2)	C6-C10 Fraction	C6-C10 less BTEX (F1)	Benzene	Ethylbenzene	Toluene	Xylene (o)	Xylene (m & p)	Xylene (Total)	Naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (lower bound)*	Benzo(a)pyrene TEQ (medium bound)*	Benzo(a)pyrene TEQ (upper bound)*	Benzo(b,j)fluoranthene	Benzo(b,j+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Carcinogenic PAHs as B(a)P TEQ	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Phenanthrene	PAHs (Total)	Pyrene	Total Positive PAHs	4,4-DDE	Aldrin	Aldrin + Dieldrin (Sum of Total)	alpha-BHC	alpha-Chlordane	beta-BHC	Chlordane	DDD	DDT	Dieldrin	DDT+DDE+DDD (Sum of Total)	delta-BHC	Endosulfan alpha	Endosulfan beta	Endosulfan sulphate	Endrin	gamma-Chlordane	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor Epoxide	Lindane
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					2	0.4	1	1	1	1	0.1	1	1	20	20	50	50	50	50	100	100	50	50	20	20	0.1	0.1	0.1	0.1	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.05	0.5	0.5	0.5	0.5		0.1	0.5	0.1	0.1		0.1	0.1	0.1	0.1	0.5	0.1		0.05	0.05	0.05	0.05		0.05	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		0.05	0.05	0.05	0.05	0.05
NEPM 2013 EIL, EILs Aged Sediment					100			130		110		170	270																			170																																180													
NEPM 2013 ESL Urban Residential and Public Open Space, Fine Soil																				1300	5600		120		180	65	125	105			45						0.7																																							
NEPM 2013 HSL Asbestos in Soil - Bonded ACM - Residential - HSL B																																																																												
NEPM 2013 HSL Asbestos in Soil - FA & AF - HSL																																																																											
NEPM 2013 Mgnt Limits - Residential, Parkland and Public Open Space, Fine																			1000	3500	10000			800																																																						
NEPM 2013 Soil HIL B					500	150	500	30000		1200	120	1200	60000																									4	4	4							4					400					10				90				600					20				10		
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 0 to <1m																							280		50	0.7	NL	480			110	5																																													
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 1 to <2m																							NL		90	1	NL	NL			310	NL																																													
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 2 to <4m																							NL		150	2	NL	NL			NL	NL																																													
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 4m+																							NL		290	3	NL	NL			NL	NL																																													
Field ID	Fill/Natural	Date / Parent	SampleCode	Report #																																																																						
QC5	Natural	BH17 1.8-2.0	216396-5	216396	14	<0.4	24	18	-	20	<0.1	6	27	<25	<50	<100	<100	-	<50	<100	<100	<50	<50	<25	<25	<0.2	<1	<0.5	<1	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.5	<0.5	<0.5	-	<0.2	<0.1	-	<0.1	<0.1	<0.172[#2]	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.05	<0.1	<0.1	<0.2[#39]	<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
BH18 0.15-1.0	Fill	28/04/2019	S19-Ap38956	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH18 0.9-1.0	Fill	28/04/2019	M19-Ap39545	652879	14	<0.4	39	47	-	55	<0.1	30	83	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH18 1.0-2.0	Fill	28/04/2019	S19-Ap38957	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH18 2.0-2.9	Fill	28/04/2019	S19-Ap38958	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 0.15-1.0	Fill	28/04/2019	S19-Ap38959	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 1.0-2.0	Fill	28/04/2019	S19-Ap38960	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 2.5-2.7	Fill	28/04/2019	M19-Ap39546	652879	6.3	<0.4	24	44	-	32	<0.1	23	140	<20	<20	60	86	146	<50	120	<100	120	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH19 3.5-3.7	Fill	28/04/2019	S19-Ap39000	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 3.7-3.9	Fill	28/04/2019	M19-Ap39547	652879	12	<0.4	36	28	-	50	<0.1	16	73	<20	140	640	77	857	330	530	<100	860	330	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH19 3.7-4.3	Fill	28/04/2019	S19-Ap38962	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 4.1-4.3	Fill	28/04/2019	M19-Ap39548	652879	16	<0.4	34	22	-	35	<0.1	5.7	26	<20	29	150	<50	179	70	130	<100	200	70	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH19 4.3-4.5	Natural	28/04/2019	M19-Ap39549	652879	13	<0.4	30	20	-	28	<0.1	5.3	23	<20	22	120	<50	142	57	<100	<100	<100	57	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH20 0.15-1.0	Fill	28/04/2019	S19-Ap38963	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH20 2.0-3.0	Fill	28/04/2019	S19-Ap38964	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH20 2.9-3.0	Fill	28/04/2019	M19-Ap39550	652879	14	<0.4	43	7700	-	32	<0.1	21	80	<20	<20	92	220	312	<50	240	260	500	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH20 3.2-4.0	Fill	28/04/2019	S19-Ap38965	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH20 4.4-4.5	Fill	28/04/2019	M19-Ap39551	652879	10	<0.4	33	23	-	24	<0.1	11	25	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH21 1.0-2.0	Fill	28/04/2019	S19-Ap38966	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21 1.9-2.0	Fill	28/04/2019	M19-Ap39552	652879	5.8	<0.4	33	67	-	150	<0.1	37	470	<20	<20	150	120	270	<50	230	<100	230	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH21 3.0-4.0	Fill	28/04/2019	S19-Ap38967	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21 4.4-4.5	Fill	28/04/2019	M19-Ap39553	652879	13	<0.4	49	52	-	45	<0.1	25	470	<20	<20	170	100	270	<50	240	<100	240	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH21 5.0-5.4	Fill	28/04/2019	S19-Ap38968	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22 0.1-0.5	Fill	4/05/2019	S19-My08349	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22 0.5-0.6	Fill	4/05/2019	M19-My09485	654111	7.9	<0.4	24	56	-	58	<0.1	33	110	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH22 0.5-1.5	Fill	4/05/2019	S19-My08350	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22 1.5-2.5	Fill	4/05/2019	S19-My08351	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22 3.6-3.7	Natural	4/05/2019	M19-My09486	654111	-	-	-	-	36000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH23 0.1-0.3	Fill	4/05/2019	M19-My09487	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH23 0.1-1.0	Fill	4/05/2019	S19-My08352	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH23 0.5-0.6	Fill	4/05/2019	M19-My09488	654111	5.3	<0.4	17	100	-	49	<0.1	8.5	130	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<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	0.7	1.2	<0.5	-	<0.5	<0.5	0.5	<0.5	0.6675[#39]	1	<0.5	0.6	<0.5	3.6	1	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH23 1.0-1.1	Fill	4/05/2019	M19-My09489	654111	13	<0.4	37	30	-	110	<0.1	16	190	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	0.5	1.7	1.6	2.1	2.4	2.6	0.9	-	0.7	1.3	1.6	<0.5	2.353[#39]	3.7	<0.5	0.9	2.1	18.9	3.9	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH24 0.1-0.3	Fill	4/05/2019	M19-My09490	654111	8.3	<0.4	20	33	-	120	<0.1	13	210	<20	<20	59	<50	59	<50	<100	<100	<100	<50	<20	<20	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	0.7	0.7	0.9	1.2	1.5	<0.5	-	0.6	0.6	0.7	<0.5	1.188[#39]	1.8	<0.5	0.7	1.5	9.2	1.9	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH24 0.1-1.0	Fill	4/05/2019	S19-My08353	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH24 1.0-1.1	Fill	4/05/2019	M19-My09491	654111	11	<0.4	33	33	-	180	<0.1	15	260	<20	<20	53	<50	53	<50	<100	<100	<100	<50	<20	<20	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	0.5	0.9	1.5	1.4	1.8	2.1	2.3	0.7	-	0.6	1.2	1.6	<0.5	2.092[#39]	3.9	<0.5	0.8	4.1	21.3	4.1	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH24 1.0-1.5	Fill	4/05/2019	S19-My08354	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH25 0.1-0.2	Fill	4/05/2019	M19-My09492	654111	7.7	<0.4	17	13	-	20	<0.1	5.7	29	<20	<20	<50	55	55	<50	<100	<100	<100	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH25 0.1-1.0	Fill	4/05/2019	S19-My08355	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH25 2.0-2.1	Natural	4/05/2019	M19-My09493	654111	8.8	<0.4	29	23	45000	83	<0.1	8.6	160	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
QA06	Natural	BH25 2.0-2.1	216850-3	216850	6	<0.4	20	17	-	61	<0.1	5	98	<25	<50	<100	<100	-	<50	<100	<100	<50	<50	<25	<25	<0.2	<1	<0.5	<1	<2	<1	<0.1	<0.1	0.1	0.2	0.5	0.5	0.6	0.7	0.7	-	0.8	0.3	-	0.6	<0.1	0.629[#15]	1.1	<0.1	0.2	0.9	-	1.1	6.3	<0.1	<0.1	<0.2[#39]	<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
BH26 0.1-1.0	Fill	4/05/2019	S19-My08356	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QA6	Fill	BH26 0.1-1.0	216850-1	216850	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QC6	Fill	BH26 0.1-1.0	S19-My08377	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH26 0.5-0.6	Fill	4/05/2019	M19-My09494	654111	9.1	<0.4	23	34	-	38	<0.1	21	88	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH26 1.0-1.5	Fill	4/05/2019	S19-My08357	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH27 0.1-0.2	Fill	4/05/2019	M19-My09531	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH27 0.1-1.3	Fill	4/05/2019	S19-My08358	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH27 1.0-1.1	Fill	4/05/2019	M19-My09495	654111	8.5	<0.4	14	51	-	42	<0.1	39	190	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH28 0.1-0.2	Fill	4/05/2019	M19-My09496	654111	8.9	<0.4	15	38	-	29	<0.1	26	90	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH28 0.1-1.0	Fill	4/05/2019	S19-My08359	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH28 1.0-1.6	Fill	4/05/2019	S19-My08360	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH29 0.0-1.0	Fill	4/05/2019	S19-My08361	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH29 0.05-0.1	Fill	4/05/2019	M19-My09497	654111	6.4	<0.4	15	17	-	28	<0.1	10	58	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH30 0.0-0.5	Fill	4/05/2019	S19-My08362	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH30 0.4-0.5	Fill	4/05/2019	M19-My09498	654111	16	<0.4	33	15	-	54	<0.1	6.8	18	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH31 0.0-1.0	Fill	4/05/2019	S19-My08363	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH31 0.05-0.1	Fill	4/05/2019	M19-My09544	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH31 0.9-1.0	Fill	4/05/2019	M19-My09499	654111	10	<0.4	18	36	-	37	<0.1	14	62	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH32 0.0-1.0	Fill	4/05/2019	S19-My08364	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH32 0.05-0.1	Fill	4/05/2019	M19-My09500	654111	2.1	<0.4	6	9.6	-	9.2	<0.1	5.4	44	<20	<20	59	250	309	<50	260	<100	260	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH32 1.0-2.0	Fill	4/05/2019	S19-My08365	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH32 1.9-2.0	Fill	4/05/2019	M19-My09501	654111	9.9	<0.4	23	22	-	35	<0.1	12	38	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH32 2.0-2.2	Fill	4/05/2019	S19-My08366	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH33 0.1-0.2	Fill	4/05/2019	M19-My09502	654111	3.9	<0.4	120	31	-	9.8	<0.1	110	68	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH33 0.1-1.2	Fill	4/05/2019	S19-My08367	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH34 0.1-1.0	Fill	4/05/2019	S19-My08368	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH34 0.5-0.6	Fill	4/05/2019	M19-My09503	654111	15	<0.4	30	18	-	21	<0.1	6.1	28	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH35 0.0-1.0	Fill	4/05/2019	S19-My08369	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH35 0.9-1.0	Fill	4/05/2019	M19-My09504	654111	6.9	<0.4	85	31	-	15	<0.1	69	67	<20	<20	<50	180	180	<50	150	260	410	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH36 0.5-0.6	Fill	4/05/2019	M19-My09505	654111	6.9	<0.4	15	27	-	41	<0.1	14	73	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH36 0.5-1.0	Fill	4/05/2019	S19-My08370	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH36 1.0-1.8	Fill	4/05/2019	S19-My08371	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH36 1.2-1.3	Fill	4/05/2019	M19-My09506	654111	4.7	<0.4	22	18	-	13	<0.1	18	39	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH37 0.0-0.9	Fill	4/05/2019	S19-My08372	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH37 0.05-0.1	Fill	4/05/2019	M19-My09507	654111	6	<0.4	31	42	-	24	<0.1	51	93	<20	<20	63	88	151	<50	120	<100	120	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH38 0.0-1.0	Fill	4/05/2019	S19-My08373	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH38 0.05-0.1	Fill	4/05/2019	M19-My09564	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH38 0.9-1.0	Fill	4/05/2019	M19-My09508	654111	6.4	<0.4	13	42	-	30	<0.1	16	75	<20	74	300	200	574	<50	440	100	540	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH39 0.0-1.0	Fill	4/05/2019	S19-My08374	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH39 0.05-0.1	Fill	4/05/2019	M19-My09509	654111	7.6	<0.4	26	23	-	27	<0.1	23	67	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH40 0.0-1.0	Fill	4/05/2019	S19-My08375	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH40 0.4-0.5	Fill	4/05/2019	M19-My09510	654111	6.6	<0.4	15	34	-	28	<0.1	12	51	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH41 0.0-1.0	Fill	4/05/2019	S19-My08376	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH41 0.9-1.0	Fill	4/05/2019	M19-My09511	654111	9	<0.4	16	22	-	23	<0.1	14	76	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
BH42 0.0-1.0	Fill	4/05/2019	S19-My08379	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH42 0.4-0.5	Fill	4/05/2019	M19-My09512	654111	12	<0.4	27	18	-	42	<0.1	7.9	53	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#39]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
A6_01_1.5-1.6	Fill	29/08/2017	S17-Se02485	561477	14	<0.4	33	17	-	22	<0.1	9	35	<20	<20	<50	<50	<50	<50	<100	<100	-	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#3]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A6_02_3.5-3.6	Fill	29/08/2017	S17-Se02492	561477	12	<0.4	19	40	-	18	<0.1	15	120	<20	<20	<50	52	52	<50	<100	<100	-	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#3]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	0.06	<0.05	-	<0.05	<0.1	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A6_03_0.5-0.6	Fill	29/08/2017	S17-Se02498	561477	9.1	<0.4	8.2	57	-	26	<0.1	11	60	<20	<20	<50	<50	<50	<50	<100	<100	-	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#3]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A6_03_1.5-1.6	Fill	29/08/2017	S17-Se02499	561477	4.9	<0.4	11	53	-	15	<0.1	56	77	<20	<20	130	290	420	<50	360	190	-	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#3]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A6_04_2.5-2.6	Fill	29/08/2017	S17-Se02504	561477	4.8	1.2	18	35	-	17	<0.1	21	490	<20	<20	<50	<50	<50	<50	<100	<100	-	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#3]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A6_05_3.5-3.6	Fill	29/08/2017	S17-Se02512	561477	5.8	<0.4	22	36	-	18	<0.1	47	55	<20	<20	<50	<50	<50	<50	<100	<100	-	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#3]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
QA20170829_B	Fill	29/08/2017	S17-Se02520	561477	6.4	<0.4	18	44	-	21	<0.1	44	71	<20	<20	<50	<50	<50	<50	<100	<100	-	<50	<20	<20	<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	0.6	1.2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<1.21[#3]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
QC20170829-B	Fill	29/08/2017	174925-2	174925	4	<0.4	17	44	-	18	<0.1	49	48	<25	<50	<100	<100	<50	<100	<100	<50	-	<50	<25	<25	<0.2	<1	<0.5	<1	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.5	<0.5	<0.5	-	-	<0.1	-	<0.1	<0.1	<0.172[#]	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.172[#]	<0.1	<0.1	<0.2[#2]	<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
A6_01_0-1AQ	Fill	29/08/2017	S17-Se02486	561477	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Summary of Soil Analytical Results (JBS&G 2021)
Project Number: 56200
Project Name: Westmead Children's Hospital Stage 2 DSI

JBS&G

								Organophosphorus Pesticides																																			Chlorinated Alkanes																		Chlorinated Alkenes													Solvents		
					Methoxychlor	Pentachlorophenol	Toxaphene	Azinphos methyl	Bromophos-ethyl	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	Coumaphos	Demeton-O	Demeton-S	Diazinon	Dichlorvos	Dimethoate	Disulfoton	EPN	Ethion	Ethoprophos	Fenitrothion	Fensulfothion	Fenthion	Malathion	Merphos	Mevinphos	Monocrotophos	Naled	Omethoate	Parathion	Parathion methyl	Phorate	Pirimiphos methyl	Pyrazophos	Ronnel	Sulprofos	Terbufos	Tetrachlorvinphos	Tokuthion	Trichloronate	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	1,3-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	2-Propanone (Acetone)	Arochlor 1016	Arochlor 1221
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	1	1	0.1		0.2	0.1	0.1	2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.2	2	0.2	2	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	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	0.5	0.5	0.5	0.5	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
NEPM 2013 EIL, EILs Aged Sediment																																																																										
NEPM 2013 ESL Urban Residential and Public Open Space, Fine Soil																																																																										
NEPM 2013 HSL Asbestos in Soil - Bonded ACM - Residential - HSL B																																																																										
NEPM 2013 HSL Asbestos in Soil - FA & AF - HSL																																																																										
NEPM 2013 Mgnt Limits - Residential, Parkland and Public Open Space, Fine																																																																										
NEPM 2013 Soil HIL B					500	130	30				340																																																											
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 0 to <1m																																																																										
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 1 to <2m																																																																										
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 2 to <4m																																																																										
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 4m+																																																																										
Field ID	Fill/Natural	Date / Parent	SampleCode	Report #																																																																						
BH01 0.1-1.0	Fill	27/04/2019	S19-Ap38901	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH01 0.2-0.3	Fill	27/04/2019	M19-Ap39517	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH01 1.0-2.0	Fill	27/04/2019	S19-Ap38902	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH01 1.9-2.0	Fill	27/04/2019	M19-Ap39518	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH01 2.0-3.0	Fill	27/04/2019	S19-Ap38903	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH01 5.3-5.6	Natural	27/04/2019	M19-Ap39519	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 0.1-0.3	Fill	27/04/2019	M19-Ap39520	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH02 0.1-0.3	Fill	27/04/2019	S19-Ap38904	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 0.4-1.0	Fill	27/04/2019	S19-Ap38905	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 1.0-2.0	Fill	27/04/2019	S19-Ap38906	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 2.0-3.0	Fill	27/04/2019	S19-Ap38986	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 2.9-3.0	Fill	27/04/2019	M19-Ap39521	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH02 3.0-4.0	Fill	27/04/2019	S19-Ap38911	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03 1.0-2.0	Fill	27/04/2019	S19-Ap38909	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03 3.0-4.0	Fill	27/04/2019	S19-Ap38910	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03 3.9-4.0	Fill	27/04/2019	M19-Ap39522	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH03 4.5-5.5	Fill	27/04/2019	S19-Ap38912	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03 4.6-4.7	Fill	27/04/2019	M19-Ap39523	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH04 0.1-1.0	Fill	27/04/2019	S19-Ap38913	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QA1	Fill	BH04 0.1-1.0	S19-Ap38969	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QC1	Fill	BH04 0.1-1.0	216396-6	216396	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04 0.4-0.5	Fill	27/04/2019	M19-Ap39524	652879	<0.05	<1	<1	<0.2	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<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	<0.5	<0.5	<0.5	<0.5	<0.5	-	<1[#39]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1
QA1	Fill	BH04 0.4-0.5	M19-Ap39554	652879	<0.05	<1	<1	<0.2	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<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	<0.5	<0.5	<0.5	<0.5	<0.5	-	<1[#39]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1
QC1	Fill	BH04 0.4-0.5	216396-1	216396	<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	<2[#39]	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	-	<0.1	<0.1
BH04 3.0-4.0	Fill	27/04/2019	S19-Ap38914	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04 4.2-4.8	Fill	27/04/2019	S19-Ap38915	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04 4.6-4.8	Natural	27/04/2019	M19-Ap39525	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH05 0.05-1.0	Fill	27/04/2019	S19-Ap38916	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05 1.0-2.0	Fill	27/04/2019	S19-Ap38917	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05 1.9-2.0	Fill	27/04/2019	M19-Ap39526	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH05 2.0-2.5	Fill	27/04/2019	S19-Ap38918	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH06 0.05-0.8	Fill	27/04/2019	S19-Ap38919	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QA2	Fill	BH06 0.05-0.8	S19-Ap38970	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QC2	Fill	BH06 0.05-0.8	216396-7	216396	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH06 0.1-0.3	Fill	27/04/2019	M19-Ap39527	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
QA2	Fill	BH06 0.1-0.3	M19-Ap39555	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
QC2	Fill	BH06 0.1-0.3	216396-2	216396	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH06 0.8-1.5	Fill	27/04/2019	S19-Ap38920	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH06 1.8-2.0	Fill	27/04/2019	S19-Ap38921	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 0.9-1.0	Fill	27/04/2019	M19-Ap39528	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
QA3	Fill	BH07 0.9-1.0	M19-Ap39556	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
QC3	Fill	BH07 0.9-1.0	216396-3	216396	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH07 1.0-2.0	Fill	27/04/2019	S19-Ap38922	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QA3	Fill	BH07 1.0-2.0	S19-Ap38971	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QC3	Fill	BH07 1.0-2.0	216396-8	216396	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 2.0-3.0	Fill	27/04/2019	S19-Ap38928	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 3.8-4.5	Fill	27/04/2019	S19-Ap38924	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 4.6-4.8	Natural	27/04/2019	M19-Ap39529	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH08 0.2-1.0	Fill	27/04/2019	S19-Ap38925	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH08 1.0-2.0	Fill	27/04/2019	S19-Ap38926	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH08 1.9-2.0	Fill	27/04/2019	M19-Ap39530	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH08 2.0-3.0	Fill	27/04/2019	S19-Ap38927	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09 0.05-1.0	Fill	27/04/2019	S19-Ap38929	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09 1.0-2.0	Fill	27/04/2019	S19-Ap38930	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09 3.4-3.5	Fill	27/04/2019	M19-Ap39968	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH10 0.15-1.0	Fill	27/04/2019	S19-Ap38933	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10 0.4-0.5	Fill	27/04/2019	M19-Ap39532	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH10 1.0-1.5	Fill	27/04/2019	S19-Ap38934	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 0.15-0.3	Fill	27/04/2019	M19-Ap39533	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH11 0.15-1.0	Fill	27/04/2019	S19-Ap38935	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 1.0-2.0	Fill	27/04/2019	S19-Ap38995	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 3.6-3.8	Fill	27/04/2019	M19-Ap39535	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH11 3.6-4.2	Fill	27/04/2019	S19-Ap38937	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 4.2-4.4	Natural	27/04/2019	M19-Ap39536	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH12 0.1-1.0	Fill	27/04/2019	S19-Ap38938	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12 1.0-2.0	Fill	27/04/2019	S19-Ap38939	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12 1.9-2.0	Fill	27/04/2019	M19-Ap39537	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH12 2.0-3.0	Fill	27/04/2019	S19-Ap38940	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 0.15-1.0	Fill	28/04/2019	S19-Ap38941	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QA4	Fill	BH13 0.15-1.0	S19-Ap38972	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QC4	Fill	BH13 0.15-1.0	216396-9	216396	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 0.4-0.5	Fill	28/04/2019	M19-Ap39538	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH13 1.0-2.0	Fill	28/04/2019	S19-Ap38942	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 2.0-2.4	Fill	28/04/2019	S19-Ap38943	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 0.1-1.0	Fill	28/04/2019	S19-Ap38944	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 0.9-1.0	Fill	28/04/2019	M19-Ap39539	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH14 1.0-2.0	Fill	28/04/2019	S19-Ap38945	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 2.0-2.9	Fill	28/04/2019	S19-Ap38946	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15 0.1-0.3	Fill	28/04/2019	M19-Ap39540	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH15 0.1-0.3	Fill	28/04/2019	S19-Ap38947	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15 0.3-1.0	Fill	28/04/2019	S19-Ap38948	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15 1.0-2.0	Fill	28/04/2019	S19-Ap38949	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15 2.6-2.7	Fill	28/04/2019	M19-Ap39541	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH16 0.2-0.5	Fill	28/04/2019	S19-Ap38950	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16 0.5-1.5	Fill	28/04/2019	S19-Ap38951	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16 1.4-1.5	Fill	28/04/2019	M19-Ap39542	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH16 1.5-2.4	Fill	28/04/2019	S19-Ap38952	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 0.1-0.4	Fill	28/04/2019	S19-Ap38953	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 0.4-0.5	Fill	28/04/2019	M19-Ap39543	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH17 0.4-1.4	Fill	28/04/2019	S19-Ap38954	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QA5	Fill	BH17 0.4-1.4	S19-Ap38973	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QC5	Fill	BH17 0.4-1.4	216396-10	216396	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 1.4-1.8	Fill	28/04/2019	S19-Ap38955	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 1.8-2.0	Natural	28/04/2019	M19-Ap39544	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
QA5	Natural	BH17 1.8-2.0	M19-Ap39557	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1

Table A - Summary of Soil Analytical Results (JBS&G 2021)
Project Number: 56200
Project Name: Westmead Children's Hospital Stage 2 DSI

Field ID	Fill/Natural	Date / Parent	SampleCode	Report #	Methoxychlor	Pentachlorophenol	Toxaphene	Azinphos methyl	Bromophos-ethyl	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	Coumaphos	Demeton-O	Demeton-S	Diazinon	Dichlorvos	Dimethoate	Disulfoton	EPN	Ethion	Ethoprophos	Fenitrothion	Fensulfothion	Fenthion	Malathion	Merphos	Mevinphos	Monocrotophos	Naled	Omethoate	Parathion	Parathion methyl	Phorate	Pirimiphos methyl	Pyrazophos	Ronnel	Sulprofos	Terbufos	Tetrachlorvinphos	Tokuthion	Trichloronate	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	1,3-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	2-Propanone (Acetone)	Aroclor 1016	Aroclor 1221
								Organophosphorus Pesticides																																			Chlorinated Alkanes																		Chlorinated Alkenes													Solvents		
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	1	1	0.1		0.2	0.1	0.1	2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.2	2	0.2	2	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	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	0.5	0.5	0.5	0.5	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
NEPM 2013 EIL, EILs Aged Sediment																																																																											
NEPM 2013 ESL Urban Residential and Public Open Space, Fine Soil																																																																											
NEPM 2013 HSL Asbestos in Soil - Bonded ACM - Residential - HSL B																																																																											
NEPM 2013 HSL Asbestos in Soil - FA & AF - HSL																																																																											
NEPM 2013 Mgnt Limits - Residential, Parkland and Public Open Space, Fine																																																																										
NEPM 2013 Soil HIL B					500	130	30				340																																																															
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 0 to <1m																																																																											
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 1 to <2m																																																																											
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 2 to <4m																																																																											
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 4m+																																																																											
QC5	Natural	BH17 1.8-2.0	216396-5	216396	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH18 0.15-1.0	Fill	28/04/2019	S19-Ap38956	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH18 0.9-1.0	Fill	28/04/2019	M19-Ap39545	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH18 1.0-2.0	Fill	28/04/2019	S19-Ap38957	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH18 2.0-2.9	Fill	28/04/2019	S19-Ap38958	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 0.15-1.0	Fill	28/04/2019	S19-Ap38959	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 1.0-2.0	Fill	28/04/2019	S19-Ap38960	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 2.5-2.7	Fill	28/04/2019	M19-Ap39546	652879	<0.05	-	<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	-	<1[#39]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1
BH19 3.5-3.7	Fill	28/04/2019	S19-Ap39000	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 3.7-3.9	Fill	28/04/2019	M19-Ap39547	652879	<0.05	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<1[#39]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1
BH19 3.7-4.3	Fill	28/04/2019	S19-Ap38962	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 4.1-4.3	Fill	28/04/2019	M19-Ap39548	652879	<0.05	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<1[#39]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1
BH19 4.3-4.5	Natural	28/04/2019	M19-Ap39549	652879	<0.05	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<1[#39]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1
BH20 0.15-1.0	Fill	28/04/2019	S19-Ap38963	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH20 2.0-3.0	Fill	28/04/2019	S19-Ap38964	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH20 2.9-3.0	Fill	28/04/2019	M19-Ap39550	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH20 3.2-4.0	Fill	28/04/2019	S19-Ap38965	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH20 4.4-4.5	Fill	28/04/2019	M19-Ap39551	652879	<0.05	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<1[#39]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1
BH21 1.0-2.0	Fill	28/04/2019	S19-Ap38966	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21 1.9-2.0	Fill	28/04/2019	M19-Ap39552	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH21 3.0-4.0	Fill	28/04/2019	S19-Ap38967	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21 4.4-4.5	Fill	28/04/2019	M19-Ap39553	652879	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH21 5.0-5.4	Fill	28/04/2019	S19-Ap38968	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22 0.1-0.5	Fill	4/05/2019	S19-My08349	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22 0.5-0.6	Fill	4/05/2019	M19-My09485	654111	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH22 0.5-1.5	Fill	4/05/2019	S19-My08350	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22 1.5-2.5	Fill	4/05/2019	S19-My08351	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22 3.6-3.7	Natural	4/05/2019	M19-My09486	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH23 0.1-0.3	Fill	4/05/2019	M19-My09487	654111	-	-	-	<0.2	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH23 0.1-1.0	Fill	4/05/2019	S19-My08352	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH23 0.5-0.6	Fill	4/05/2019	M19-My09488	654111	<0.05	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH23 1.0-1.1	Fill	4/05/2019	M19-My09489	654111	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH24 0.1-0.3	Fill	4/05/2019	M19-My09490	654111	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH24 0.1-1.0	Fill	4/05/2019	S19-My08353	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH24 1.0-1.1	Fill	4/05/2019	M19-My09491	654111	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH24 1.0-1.5	Fill	4/05/2019	S19-My08354	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH25 0.1-0.2	Fill	4/05/2019	M19-My09492	654111	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH25 0.1-1.0	Fill	4/05/2019	S19-My08355	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH25 2.0-2.1	Natural	4/05/2019	M19-My09493	654111	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
QA06	Natural	BH25 2.0-2.1	216850-3	216850	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH26 0.1-1.0	Fill	4/05/2019	S19-My08356	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QA6	Fill	BH26 0.1-1.0	216850-1	216850	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QC6	Fill	BH26 0.1-1.0	S19-My08377	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH26 0.5-0.6	Fill	4/05/2019	M19-My09494	654111	<0.05	-	<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	-	<1[#39]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1
BH26 1.0-1.5	Fill	4/05/2019	S19-My08357	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH27 0.1-0.2	Fill	4/05/2019	M19-My09531	654111	-	-	-	<0.2	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH27 0.1-1.3	Fill	4/05/2019	S19-My08358	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH27 1.0-1.1	Fill	4/05/2019	M19-My09495	654111	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH28 0.1-0.2	Fill	4/05/2019	M19-My09496	654111	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH28 0.1-1.0	Fill	4/05/2019	S19-My08359	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH28 1.0-1.6	Fill	4/05/2019	S19-My08360	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH29 0.0-1.0	Fill	4/05/2019	S19-My08361	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH29 0.05-0.1	Fill	4/05/2019	M19-My09497	654111	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH30 0.0-0.5	Fill	4/05/2019	S19-My08362	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH30 0.4-0.5	Fill	4/05/2019	M19-My09498	654111	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH31 0.0-1.0	Fill	4/05/2019	S19-My08363	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH31 0.05-0.1	Fill	4/05/2019	M19-My09544	654111	-	-	-	<0.2	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH31 0.9-1.0	Fill	4/05/2019	M19-My09499	654111	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH32 0.0-1.0	Fill	4/05/2019	S19-My08364	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH32 0.05-0.1	Fill	4/05/2019	M19-My09500	654111	<0.05	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH32 1.0-2.0	Fill	4/05/2019	S19-My08365	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH32 1.9-2.0	Fill	4/05/2019	M19-My09501	654111	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH32 2.0-2.2	Fill	4/05/2019	S19-My08366	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH33 0.1-0.2	Fill	4/05/2019	M19-My09502	654111	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH33 0.1-1.2	Fill	4/05/2019	S19-My08367	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH34 0.1-1.0	Fill	4/05/2019	S19-My08368	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH34 0.5-0.6	Fill	4/05/2019	M19-My09503	654111	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH35 0.0-1.0	Fill	4/05/2019	S19-My08369	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH35 0.9-1.0	Fill	4/05/2019	M19-My09504	654111	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH36 0.5-0.6	Fill	4/05/2019	M19-My09505	654111	<0.05	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH36 0.5-1.0	Fill	4/05/2019	S19-My08370	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH36 1.0-1.8	Fill	4/05/2019	S19-My08371	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH36 1.2-1.3	Fill	4/05/2019	M19-My09506	654111	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH37 0.0-0.9	Fill	4/05/2019	S19-My08372	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH37 0.05-0.1	Fill	4/05/2019	M19-My09507	654111	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH38 0.0-1.0	Fill	4/05/2019	S19-My08373	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH38 0.05-0.1	Fill	4/05/2019	M19-My09564	654111	-	-	-	<0.2	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH38 0.9-1.0	Fill	4/05/2019	M19-My09508	654111	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH39 0.0-1.0	Fill	4/05/2019	S19-My08374	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH39 0.05-0.1	Fill	4/05/2019	M19-My09509	654111	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH40 0.0-1.0	Fill	4/05/2019	S19-My08375	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH40 0.4-0.5	Fill	4/05/2019	M19-My09510	654111	<0.05	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH41 0.0-1.0	Fill	4/05/2019	S19-My08376	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH41 0.9-1.0	Fill	4/05/2019	M19-My09511	654111	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
BH42 0.0-1.0	Fill	4/05/2019	S19-My08379	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH42 0.4-0.5	Fill	4/05/2019	M19-My09512	654111	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
A6_01_1.5-1.6	Fill	29/08/2017	S17-Se02485	561477	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
A6_02_3.5-3.6	Fill	29/08/2017	S17-Se02492	561477	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
A6_03_0.5-0.6	Fill	29/08/2017	S17-Se02498	561477	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
A6_03_1.5-1.6	Fill	29/08/2017	S17-Se02499	561477	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
A6_04_2.5-2.6	Fill	29/08/2017	S17-Se02504	561477	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
A6_05_3.5-3.6	Fill	29/08/2017	S17-Se02512	561477	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
QA20170829_B	Fill	29/08/2017	S17-Se02520	561477	<0.05	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
QC20170829-B	Fill	29/08/2017	174925-2	174925	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
A6_01_0-1AQ	Fill	29/08/2017	S17-Se02486	561477	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Summary of Soil Analytical Results (JBS&G 2021)
Project Number: 56200
Project Name: Westmead Children's Hospital Stage 2 DSI

					Polychlorinated Biphenyls						Phenols																			Monocyclic Aromatic Hydrocarbons											Miscellaneous Hydrocarbons							Chlorinated Benzenes							Trihalomethanes				EPA VIC - IWRG621				Miscellaneous Industrial Chemicals
					Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	PCBs (Total)	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,4-dinitrophenol	2,6-dichlorophenol	2-chlorophenol	2-Methylphenol	2-nitrophenol	3- & 4-Methylphenol	4,6-Dinitro-2-methylphenol	4,6-Dinitro-o-cyclohexyl phenol	4-Chloro-3-Methylphenol	4-nitrophenol	Phenol	Phenols (Total)	Total Halogenated Phenol	Total Non-Halogenated Phenol	Total Tetrachlorophenols	1,2,4-trimethyl benzene	1,3,5-trimethyl benzene	4-isopropyl toluene	Bromobenzene	Isopropylbenzene	n-butyl benzene	n-propyl benzene	sec-butyl benzene	Styrene	Tert-butyl benzene	Total MAH*	1,2-dibromoethane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Bromomethane	Cyclohexane	Dibromomethane	Iodomethane	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	Bromodichloromethane	Chloroform	Dibromochloromethane	Tribromomethane	Chlorinated Hydrocarbons EPAVic	Other Chlorinated Hydrocarbons EPAVic	Organochlorine Pesticides EPAVic	Other Organochlorine Pesticides EPAVic	Hexachlorobutadiene
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	1	1	0.5	0.5	5	0.5	0.5	0.2	1	0.4	5	20	1	5	0.5		1	20	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	0.5	0.5	0.1	0.1	
NEPM 2013 EIL, EILs Aged Sediment																																																															
NEPM 2013 ESL Urban Residential and Public Open Space, Fine Soil																																																															
NEPM 2013 HSL Asbestos in Soil - Bonded ACM - Residential - HSL B																																																															
NEPM 2013 HSL Asbestos in Soil - FA & AF - HSL																																																															
NEPM 2013 Mgnt Limits - Residential, Parkland and Public Open Space, Fine																																																															
NEPM 2013 Soil HIL B											1															45000																													15									
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 0 to <1m																																																														
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 1 to <2m																																																															
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 2 to <4m																																																															
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 4m+																																																															
Field ID	Fill/Natural	Date / Parent	SampleCode	Report #																																																											
BH01 0.1-1.0	Fill	27/04/2019	S19-Ap38901	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH01 0.2-0.3	Fill	27/04/2019	M19-Ap39517	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH01 1.0-2.0	Fill	27/04/2019	S19-Ap38902	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH01 1.9-2.0	Fill	27/04/2019	M19-Ap39518	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	0.3	0.3	-
BH01 2.0-3.0	Fill	27/04/2019	S19-Ap38903	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH01 5.3-5.6	Natural	27/04/2019	M19-Ap39519	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 0.1-0.3	Fill	27/04/2019	M19-Ap39520	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH02 0.1-0.3	Fill	27/04/2019	S19-Ap38904	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 0.4-1.0	Fill	27/04/2019	S19-Ap38905	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 1.0-2.0	Fill	27/04/2019	S19-Ap38906	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 2.0-3.0	Fill	27/04/2019	S19-Ap38986	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 2.9-3.0	Fill	27/04/2019	M19-Ap39521	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH02 3.0-4.0	Fill	27/04/2019	S19-Ap38911	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03 1.0-2.0	Fill	27/04/2019	S19-Ap38909	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03 3.0-4.0	Fill	27/04/2019	S19-Ap38910	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03 3.9-4.0	Fill	27/04/2019	M19-Ap39522	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH03 4.5-5.5	Fill	27/04/2019	S19-Ap38912	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03 4.6-4.7	Fill	27/04/2019	M19-Ap39523	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH04 0.1-1.0	Fill	27/04/2019	S19-Ap38913	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QA1	Fill	BH04 0.1-1.0	S19-Ap38969	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QC1	Fill	BH04 0.1-1.0	216396-6	216396	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04 0.4-0.5	Fill	27/04/2019	M19-Ap39524	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.2	<1	<0.4	<5	<20	<1	<5	<0.5	-	<1	<20	<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	<0.5	<0.5	<0.1	<0.1	-
QA1	Fill	BH04 0.4-0.5	M19-Ap39554	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.2	<1	<0.4	<5	<20	<1	<5	<0.5	-	<1	<20	<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	<0.5	<0.5	<0.1	<0.1	-
QC1	Fill	BH04 0.4-0.5	216396-1	216396	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	-	-	-	<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	-	-	-	-	<1
BH04 3.0-4.0	Fill	27/04/2019	S19-Ap38914	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04 4.2-4.8	Fill	27/04/2019	S19-Ap38915	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04 4.6-4.8	Natural	27/04/2019	M19-Ap39525	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH05 0.05-1.0	Fill	27/04/2019	S19-Ap38916	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05 1.0-2.0	Fill	27/04/2019	S19-Ap38917	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05 1.9-2.0	Fill	27/04/2019	M19-Ap39526	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH05 2.0-2.5	Fill	27/04/2019	S19-Ap38918	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH06 0.05-0.8	Fill	27/04/2019	S19-Ap38919	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QA2	Fill	BH06 0.05-0.8	S19-Ap38970	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QC2	Fill	BH06 0.05-0.8	216396-7	216396	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH06 0.1-0.3	Fill	27/04/2019	M19-Ap39527	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
QA2	Fill	BH06 0.1-0.3	M19-Ap39555	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
QC2	Fill	BH06 0.1-0.3	216396-2	216396	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-
BH06 0.8-1.5	Fill	27/04/2019	S19-Ap38920	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH06 1.8-2.0	Fill	27/04/2019	S19-Ap38921	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 0.9-1.0	Fill	27/04/2019	M19-Ap39528	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
QA3	Fill	BH07 0.9-1.0	M19-Ap39556	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
QC3	Fill	BH07 0.9-1.0	216396-3	216396	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-
BH07 1.0-2.0	Fill	27/04/2019	S19-Ap38922	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QA3	Fill	BH07 1.0-2.0	S19-Ap38971	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QC3	Fill	BH07 1.0-2.0	216396-8	216396	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 2.0-3.0	Fill	27/04/2019	S19-Ap38928	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 3.8-4.5	Fill	27/04/2019	S19-Ap38924	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 4.6-4.8	Natural	27/04/2019	M19-Ap39529	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH08 0.2-1.0	Fill	27/04/2019	S19-Ap38925	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH08 1.0-2.0	Fill	27/04/2019	S19-Ap38926	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH08 1.9-2.0	Fill	27/04/2019	M19-Ap39530	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH08 2.0-3.0	Fill	27/04/2019	S19-Ap38927	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09 0.05-1.0	Fill	27/04/2019	S19-Ap38929	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09 1.0-2.0	Fill	27/04/2019	S19-Ap38930	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09 3.4-3.5	Fill	27/04/2019	M19-Ap39968	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH10 0.15-1.0	Fill	27/04/2019	S19-Ap38933	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10 0.4-0.5	Fill	27/04/2019	M19-Ap39532	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH10 1.0-1.5	Fill	27/04/2019	S19-Ap38934	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 0.15-0.3	Fill	27/04/2019	M19-Ap39533	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH11 0.15-1.0	Fill	27/04/2019	S19-Ap38935	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 1.0-2.0	Fill	27/04/2019	S19-Ap38995	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 3.6-3.8	Fill	27/04/2019	M19-Ap39535	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH11 3.6-4.2	Fill	27/04/2019	S19-Ap38937	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 4.2-4.4	Natural	27/04/2019	M19-Ap39536	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH12 0.1-1.0	Fill	27/04/2019	S19-Ap38938	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12 1.0-2.0	Fill	27/04/2019	S19-Ap38939	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12 1.9-2.0	Fill	27/04/2019	M19-Ap39537	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH12 2.0-3.0	Fill	27/04/2019	S19-Ap38940	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 0.15-1.0	Fill	28/04/2019	S19-Ap38941	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QA4	Fill	BH13 0.15-1.0	S19-Ap38972	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QC4	Fill	BH13 0.15-1.0	216396-9	216396	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 0.4-0.5	Fill	28/04/2019	M19-Ap39538	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH13 1.0-2.0	Fill	28/04/2019	S19-Ap38942	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 2.0-2.4	Fill	28/04/2019	S19-Ap38943	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 0.1-1.0	Fill	28/04/2019	S19-Ap38944	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 0.9-1.0	Fill	28/04/2019	M19-Ap39539	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH14 1.0-2.0	Fill	28/04/2019	S19-Ap38945	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 2.0-2.9	Fill	28/04/2019	S19-Ap38946	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15 0.1-0.3	Fill	28/04/2019	M19-Ap39540	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH15 0.1-0.3	Fill	28/04/2019	S19-Ap38947	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15 0.3-1.0	Fill	28/04/2019	S19-Ap38948	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15 1.0-2.0	Fill	28/04/2019	S19-Ap38949	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15 2.6-2.7	Fill	28/04/2019	M19-Ap39541	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH16 0.2-0.5	Fill	28/04/2019	S19-Ap38950	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16 0.5-1.5	Fill	28/04/2019	S19-Ap38951	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16 1.4-1.5	Fill	28/04/2019	M19-Ap39542	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH16 1.5-2.4	Fill	28/04/2019	S19-Ap38952	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 0.1-0.4	Fill	28/04/2019	S19-Ap38953	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 0.4-0.5	Fill	28/04/2019	M19-Ap39543	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH17 0.4-1.4	Fill	28/04/2019	S19-Ap38954	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QA5	Fill	BH17 0.4-1.4	S19-Ap38973	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QC5	Fill	BH17 0.4-1.4	216396-10	216396	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 1.4-1.8	Fill	28/04/2019	S19-Ap38955	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 1.8-2.0	Natural	28/04/2019	M19-Ap39544	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
QA5	Natural	BH17 1.8-2.0	M19-Ap39557	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-

Table A - Summary of Soil Analytical Results (JBS&G 2021)
Project Number: 56200
Project Name: Westmead Children's Hospital Stage 2 DSI

					Polychlorinated Biphenyls						Phenols																			Monocyclic Aromatic Hydrocarbons											Miscellaneous Hydrocarbons							Chlorinated Benzenes							Trihalomethanes				EPA VIC - IWRG621				Miscellaneous Industrial Chemicals
					Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	PCBs (Total)	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,4-dinitrophenol	2,6-dichlorophenol	2-chlorophenol	2-Methylphenol	2-nitrophenol	3- & 4-Methylphenol	4,6-Dinitro-2-methylphenol	4,6-Dinitro-o-cyclohexyl phenol	4-Chloro-3-Methylphenol	4-nitrophenol	Phenol	Phenols (Total)	Total Halogenated Phenol	Total Non-Halogenated Phenol	Total Tetrachlorophenols	1,2,4-trimethyl benzene	1,3,5-trimethyl benzene	4-isopropyl toluene	Bromobenzene	Isopropylbenzene	n-butyl benzene	n-propyl benzene	sec-butyl benzene	Styrene	Tert-butyl benzene	Total MAH*	1,2-dibromoethane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Bromomethane	Cyclohexane	Dibromomethane	Iodomethane	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	Bromodichloromethane	Chloroform	Dibromochloromethane	Tribromomethane	Chlorinated Hydrocarbons EPAVic	Other Chlorinated Hydrocarbons EPAVic	Organochlorine Pesticides EPAVic	Other Organochlorine Pesticides EPAVic	Hexachlorobutadiene
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	1	1	0.5	0.5	5	0.5	0.5	0.2	1	0.4	5	20	1	5	0.5		1	20	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	0.5	0.5	0.1	0.1	
NEPM 2013 EIL, EILs Aged Sediment																																																															
NEPM 2013 ESL Urban Residential and Public Open Space, Fine Soil																																																															
NEPM 2013 HSL Asbestos in Soil - Bonded ACM - Residential - HSL B																																																															
NEPM 2013 HSL Asbestos in Soil - FA & AF - HSL																																																															
NEPM 2013 Mgnt Limits - Residential, Parkland and Public Open Space, Fine																																																															
NEPM 2013 Soil HIL B										1															45000																													15									
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 0 to <1m																																																														
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 1 to <2m																																																														
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 2 to <4m																																																														
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 4m+																																																														
Field ID	Fill/Natural	Date / Parent	SampleCode	Report #																																																										
QC5	Natural	BH17 1.8-2.0	216396-5	216396	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-
BH18 0.15-1.0	Fill	28/04/2019	S19-Ap38956	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH18 0.9-1.0	Fill	28/04/2019	M19-Ap39545	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH18 1.0-2.0	Fill	28/04/2019	S19-Ap38957	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH18 2.0-2.9	Fill	28/04/2019	S19-Ap38958	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 0.15-1.0	Fill	28/04/2019	S19-Ap38959	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 1.0-2.0	Fill	28/04/2019	S19-Ap38960	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 2.5-2.7	Fill	28/04/2019	M19-Ap39546	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<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	<0.5	<0.5	<0.1	<0.1	-
BH19 3.5-3.7	Fill	28/04/2019	S19-Ap39000	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 3.7-3.9	Fill	28/04/2019	M19-Ap39547	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.2	<1	<0.4	<5	<20	<1	<5	<0.5	-	<1	<20	<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	<0.5	<0.5	<0.1	<0.1	-
BH19 3.7-4.3	Fill	28/04/2019	S19-Ap38962	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 4.1-4.3	Fill	28/04/2019	M19-Ap39548	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.2	<1	<0.4	<5	<20	<1	<5	<0.5	-	<1	<20	<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	<0.5	<0.5	<0.1	<0.1	-
BH19 4.3-4.5	Natural	28/04/2019	M19-Ap39549	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.2	<1	<0.4	<5	<20	<1	<5	<0.5	-	<1	<20	<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	<0.5	<0.5	<0.1	<0.1	-
BH20 0.15-1.0	Fill	28/04/2019	S19-Ap38963	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH20 2.0-3.0	Fill	28/04/2019	S19-Ap38964	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH20 2.9-3.0	Fill	28/04/2019	M19-Ap39550	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH20 3.2-4.0	Fill	28/04/2019	S19-Ap38965	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH20 4.4-4.5	Fill	28/04/2019	M19-Ap39551	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.2	<1	<0.4	<5	<20	<1	<5	<0.5	-	<1	<20	<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	<0.5	<0.5	<0.1	<0.1	-
BH21 1.0-2.0	Fill	28/04/2019	S19-Ap38966	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21 1.9-2.0	Fill	28/04/2019	M19-Ap39552	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH21 3.0-4.0	Fill	28/04/2019	S19-Ap38967	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21 4.4-4.5	Fill	28/04/2019	M19-Ap39553	652879	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH21 5.0-5.4	Fill	28/04/2019	S19-Ap38968	652817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22 0.1-0.5	Fill	4/05/2019	S19-My08349	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22 0.5-0.6	Fill	4/05/2019	M19-My09485	654111	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH22 0.5-1.5	Fill	4/05/2019	S19-My08350	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22 1.5-2.5	Fill	4/05/2019	S19-My08351	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22 3.6-3.7	Natural	4/05/2019	M19-My09486	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH23 0.1-0.3	Fill	4/05/2019	M19-My09487	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH23 0.1-1.0	Fill	4/05/2019	S19-My08352	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH23 0.5-0.6	Fill	4/05/2019	M19-My09488	654111	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.2	<1	<0.4	<5	<20	<1	<5	<0.5	-	<1	<20	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH23 1.0-1.1	Fill	4/05/2019	M19-My09489	654111	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH24 0.1-0.3	Fill	4/05/2019	M19-My09490	654111	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH24 0.1-1.0	Fill	4/05/2019	S19-My08353	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH24 1.0-1.1	Fill	4/05/2019	M19-My09491	654111	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH24 1.0-1.5	Fill	4/05/2019	S19-My08354	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH25 0.1-0.2	Fill	4/05/2019	M19-My09492	654111	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH25 0.1-1.0	Fill	4/05/2019	S19-My08355	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH25 2.0-2.1	Natural	4/05/2019	M19-My09493	654111	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
QA06	Natural	BH25 2.0-2.1	216850-3	216850	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-
BH26 0.1-1.0	Fill	4/05/2019	S19-My08356	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QA6	Fill	BH26 0.1-1.0	216850-1	216850	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ-QC6	Fill	BH26 0.1-1.0	S19-My08377	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH26 0.5-0.6	Fill	4/05/2019	M19-My09494	654111	<0.1	<0.1	<0.1	<0.1	<0.1	<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	<0.5	<0.5	<0.1	<0.1	-
BH26 1.0-1.5	Fill	4/05/2019	S19-My08357	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH27 0.1-0.2	Fill	4/05/2019	M19-My09531	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH27 0.1-1.3	Fill	4/05/2019	S19-My08358	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH27 1.0-1.1	Fill	4/05/2019	M19-My09495	654111	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH28 0.1-0.2	Fill	4/05/2019	M19-My09496	654111	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH28 0.1-1.0	Fill	4/05/2019	S19-My08359	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH28 1.0-1.6	Fill	4/05/2019	S19-My08360	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH29 0.0-1.0	Fill	4/05/2019	S19-My08361	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH29 0.05-0.1	Fill	4/05/2019	M19-My09497	654111	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH30 0.0-0.5	Fill	4/05/2019	S19-My08362	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH30 0.4-0.5	Fill	4/05/2019	M19-My09498	654111	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH31 0.0-1.0	Fill	4/05/2019	S19-My08363	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH31 0.05-0.1	Fill	4/05/2019	M19-My09544	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH31 0.9-1.0	Fill	4/05/2019	M19-My09499	654111	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH32 0.0-1.0	Fill	4/05/2019	S19-My08364	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH32 0.05-0.1	Fill	4/05/2019	M19-My09500	654111	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.2	<1	<0.4	<5	<20	<1	<5	<0.5	-	<1	<20	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH32 1.0-2.0	Fill	4/05/2019	S19-My08365	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH32 1.9-2.0	Fill	4/05/2019	M19-My09501	654111	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH32 2.0-2.2	Fill	4/05/2019	S19-My08366	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH33 0.1-0.2	Fill	4/05/2019	M19-My09502	654111	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH33 0.1-1.2	Fill	4/05/2019	S19-My08367	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH34 0.1-1.0	Fill	4/05/2019	S19-My08368	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH34 0.5-0.6	Fill	4/05/2019	M19-My09503	654111	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH35 0.0-1.0	Fill	4/05/2019	S19-My08369	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH35 0.9-1.0	Fill	4/05/2019	M19-My09504	654111	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH36 0.5-0.6	Fill	4/05/2019	M19-My09505	654111	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.2	<1	<0.4	<5	<20	<1	<5	<0.5	-	<1	<20	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH36 0.5-1.0	Fill	4/05/2019	S19-My08370	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH36 1.0-1.8	Fill	4/05/2019	S19-My08371	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH36 1.2-1.3	Fill	4/05/2019	M19-My09506	654111	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH37 0.0-0.9	Fill	4/05/2019	S19-My08372	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH37 0.05-0.1	Fill	4/05/2019	M19-My09507	654111	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH38 0.0-1.0	Fill	4/05/2019	S19-My08373	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH38 0.05-0.1	Fill	4/05/2019	M19-My09564	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH38 0.9-1.0	Fill	4/05/2019	M19-My09508	654111	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH39 0.0-1.0	Fill	4/05/2019	S19-My08374	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH39 0.05-0.1	Fill	4/05/2019	M19-My09509	654111	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH40 0.0-1.0	Fill	4/05/2019	S19-My08375	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH40 0.4-0.5	Fill	4/05/2019	M19-My09510	654111	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.2	<1	<0.4	<5	<20	<1	<5	<0.5	-	<1	<20	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH41 0.0-1.0	Fill	4/05/2019	S19-My08376	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH41 0.9-1.0	Fill	4/05/2019	M19-My09511	654111	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
BH42 0.0-1.0	Fill	4/05/2019	S19-My08379	654086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH42 0.4-0.5	Fill	4/05/2019	M19-My09512	654111	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.1	<0.1	-
A6_01_1.5-1.6	Fill	29/08/2017	S17-Se02485	561477	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-
A6_02_3.5-3.6	Fill	29/08/2017	S17-Se02492	561477	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-
A6_03_0.5-0.6	Fill	29/08/2017	S17-Se02498	561477	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-
A6_03_1.5-1.6	Fill	29/08/2017	S17-Se02499	561477	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-
A6_04_2.5-2.6	Fill	29/08/2017	S17-Se02504	561477	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-
A6_05_3.5-3.6	Fill	29/08/2017	S17-Se02512	561477	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-
QA20170829_B	Fill	29/08/2017	S17-Se02520	561477	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-
QC20170829-B	Fill	29/08/2017	174925-2	174925	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A6_01_0-1AQ	Fill	29/08/2017	S17-Se02486	561477	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Summary of Soil Analytical Results (JBS&G 2021)
Project Number: 56200
Project Name: Westmead Children's Hospital Stage 2 DSI

					Asbestsos - Field					Asbestos - Lab																	
					Approx. Volume of Soil (L)	Soil Mass (g)	Mass ACM (g)	Mass Asbestos in ACM (g)*	Asbestos from ACM in Soil	Approx. Sample Mass	Asbestos from ACM in Soil	Asbestos from FA & AF in Soil	Mass ACM	Mass Asbestos in ACM	Mass FA	Mass Asbestos in FA	Mass AF	Mass Asbestos in AF	Mass Asbestos in FA & AF	Asbestos ID in Soil	Total Asbestos g/kg*	ACM - Comment	AF - Comment	FA - Comment	Organic Fibres - Comment	Respirable Fibres - Comment	Synthetic Fibres - Comment
					L	g	g	g	%w/w	g	%w/w	%w/w	g	g	g	g	g	g	g	Comment	g/kg	Comment	Comment	Comment	Comment	Comment	Comment
EQL																											
NEPM 2013 HSL Asbestos in Soil - Bonded ACM - Residential - HSL B									0.04		0.04																
NEPM 2013 HSL Asbestos in Soil - FA & AF - HSL												0.001															
Field ID	**Fill/Natural**	**Date / Parent**	**SampleCode**	**Report #**																							
BH01 0.1-1.0	Fill	27/04/2019	S19-Ap38901	652817	10	17000	0	0	0	578	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #40
BH01 0.2-0.3	Fill	27/04/2019	M19-Ap39517	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH01 1.0-2.0	Fill	27/04/2019	S19-Ap38902	652817	10	17000	0	0	0	699	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #40
BH01 1.9-2.0	Fill	27/04/2019	M19-Ap39518	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH01 2.0-3.0	Fill	27/04/2019	S19-Ap38903	652817	10	17000	0	0	0	687	0	0.0004	0	0	0.0046	0.0028	0	0	0.0028	-	-	1 #40	1 #40	1 #4	1 #38	1 #37	1 #40
BH01 5.3-5.6	Natural	27/04/2019	M19-Ap39519	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 0.1-0.3	Fill	27/04/2019	M19-Ap39520	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 0.1-0.3	Fill	27/04/2019	S19-Ap38904	652817	10	17000	0	0	0	655	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #40
BH02 0.4-1.0	Fill	27/04/2019	S19-Ap38905	652817	10	17000	0	0	0	749	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #40
BH02 1.0-2.0	Fill	27/04/2019	S19-Ap38906	652817	10	17000	0	0	0	622	0	0.002	0	0	0.0149	0.0104	0.0019	0.0019	0.0123	-	-	1 #40	1 #23	1 #28	1 #38	1 #37	1 #40
BH02 2.0-3.0	Fill	27/04/2019	S19-Ap38986	652817	10	17000	0	0	0	660	0.084	0.0038	5.549	0.5549	0.0394	0.0236	0.0016	0.0016	0.0252	-	-	1 #33	1 #30	1 #29	1 #38	1 #37	1 #40
BH02 2.9-3.0	Fill	27/04/2019	M19-Ap39521	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 3.0-4.0	Fill	27/04/2019	S19-Ap38911	652817	10	17000	0	0	0	661	0	0.0302	0	0	0.5715	0.2	0	0	0.2	-	-	1 #40	1 #40	1 #34	1 #38	1 #37	1 #40
BH03 1.0-2.0	Fill	27/04/2019	S19-Ap38909	652817	10	17000	0	0	0	751	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #36
BH03 3.0-4.0	Fill	27/04/2019	S19-Ap38910	652817	10	17000	0	0	0	576	0	0.0004	0	0	0	0	0.0022	0.0022	0.0022	-	-	1 #40	1 #10	1 #40	1 #38	1 #37	1 #40
BH03 3.9-4.0	Fill	27/04/2019	M19-Ap39522	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03 4.5-5.5	Fill	27/04/2019	S19-Ap38912	652817	10	17000	0	0	0	511	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #40
BH03 4.6-4.7	Fill	27/04/2019	M19-Ap39523	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04 0.1-1.0	Fill	27/04/2019	S19-Ap38913	652817	10	17000	0	0	0	805	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #40
AQ-QA1	Fill	BH04 0.1-1.0	S19-Ap38969	652817	10	17000	0	0	0	815	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #40
AQ-QC1	Fill	BH04 0.1-1.0	216396-6	216396	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	<0.1	-	-	-	-	-	-
BH04 0.4-0.5	Fill	27/04/2019	M19-Ap39524	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA1	Fill	BH04 0.4-0.5	M19-Ap39554	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC1	Fill	BH04 0.4-0.5	216396-1	216396	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04 3.0-4.0	Fill	27/04/2019	S19-Ap38914	652817	10	17000	0	0	0	484	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #40
BH04 4.2-4.8	Fill	27/04/2019	S19-Ap38915	652817	10	17000	0	0	0	527	0	0.0003	0	0	0.0026	0.0016	0	0	0.0016	-	-	1 #40	1 #40	1 #4	1 #38	1 #37	1 #40
BH04 4.6-4.8	Natural	27/04/2019	M19-Ap39525	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05 0.05-1.0	Fill	27/04/2019	S19-Ap38916	652817	10	17000	0	0	0	858	0	0.0006	0	0	0	0	0.0048	0.0048	0.0048	-	-	1 #40	1 #10	1 #40	1 #38	1 #37	1 #40
BH05 1.0-2.0	Fill	27/04/2019	S19-Ap38917	652817	10	17000	0	0	0	641	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #40
BH05 1.9-2.0	Fill	27/04/2019	M19-Ap39526	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05 2.0-2.5	Fill	27/04/2019	S19-Ap38918	652817	10	17000	0	0	0	701	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #40
BH06 0.05-0.8	Fill	27/04/2019	S19-Ap38919	652817	10	17000	0	0	0	559	0	0.0001	0	0	0	0	0.0004	0.0004	0.0004	-	-	1 #40	1 #10	1 #40	1 #38	1 #37	1 #40
AQ-QA2	Fill	BH06 0.05-0.8	S19-Ap38970	652817	10	17000	0	0	0	530	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #40
AQ-QC2	Fill	BH06 0.05-0.8	216396-7	216396	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	<0.1	-	-	-	-	-	-
BH06 0.1-0.3	Fill	27/04/2019	M19-Ap39527	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA2	Fill	BH06 0.1-0.3	M19-Ap39555	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC2	Fill	BH06 0.1-0.3	216396-2	216396	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH06 0.8-1.5	Fill	27/04/2019	S19-Ap38920	652817	10	17000	0	0	0	490	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #40
BH06 1.8-2.0	Fill	27/04/2019	S19-Ap38921	652817	10	17000	0	0	0	546	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #40
BH07 0.9-1.0	Fill	27/04/2019	M19-Ap39528	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA3	Fill	BH07 0.9-1.0	M19-Ap39556	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC3	Fill	BH07 0.9-1.0	216396-3	216396	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Summary of Soil Analytical Results (JBS&G 2021)
Project Number: 56200
Project Name: Westmead Children's Hospital Stage 2 DSI

						Asbestsos - Field					Asbestos - Lab																	
						Approx. Volume of Soil (L)	Soil Mass (g)	Mass ACM (g)	Mass Asbestos in ACM (g)*	Asbestos from ACM in Soil	Approx. Sample Mass	Asbestos from ACM in Soil	Asbestos from FA & AF in Soil	Mass ACM	Mass Asbestos in ACM	Mass FA	Mass Asbestos in FA	Mass AF	Mass Asbestos in AF	Mass Asbestos in FA & AF	Asbestos ID in Soil	Total Asbestos g/kg*	ACM - Comment	AF - Comment	FA - Comment	Organic Fibres - Comment	Respirable Fibres - Comment	Synthetic Fibres - Comment
						L	g	g	g	%w/w	g	%w/w	%w/w	g	g	g	g	g	g	g	Comment	g/kg	Comment	Comment	Comment	Comment	Comment	Comment
EQL																												
NEPM 2013 HSL Asbestos in Soil - Bonded ACM - Residential - HSL B										0.04		0.04																
NEPM 2013 HSL Asbestos in Soil - FA & AF - HSL													0.001															
Field ID	**Fill/Natural**	**Date / Parent**	**SampleCode**	**Report #**																								
BH07 1.0-2.0	Fill	27/04/2019	S19-Ap38922	652817	10	17000	0	0	0	842	0	0.0005	0	0	0.0018	0.0014	0.031	0.0031	0.0045	-	-	1 #40	1 #13	1 #8	1 #38	1 #37	1 #40
AQ-QA3	Fill	BH07 1.0-2.0	S19-Ap38971	652817	10	17000	0	0	0	660	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #40
AQ-QC3	Fill	BH07 1.0-2.0	216396-8	216396	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	<0.1	-	-	-	-	-	-
BH07 2.0-3.0	Fill	27/04/2019	S19-Ap38928	652817	10	17000	0	0	0	505	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #40
BH07 3.8-4.5	Fill	27/04/2019	S19-Ap38924	652817	10	17000	0	0	0	611	0	0.0003	0	0	0	0	0.0018	0.0018	0.0018	-	-	1 #40	1 #11	1 #40	1 #38	1 #37	1 #40
BH07 4.6-4.8	Natural	27/04/2019	M19-Ap39529	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH08 0.2-1.0	Fill	27/04/2019	S19-Ap38925	652817	10	17000	0	0	0	717	0.0892	0.0004	5.33	0.6396	0	0	0.0029	0.0029	0.0029	-	-	1 #18	1 #2	1 #40	1 #38	1 #37	1 #40
BH08 1.0-2.0	Fill	27/04/2019	S19-Ap38926	652817	10	17000	0	0	0	796	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #40
BH08 1.9-2.0	Fill	27/04/2019	M19-Ap39530	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH08 2.0-3.0	Fill	27/04/2019	S19-Ap38927	652817	10	17000	0	0	0	824	0	0.0006	0	0	0.0066	0.0053	0	0	0.0053	-	-	1 #40	1 #40	1 #8	1 #38	1 #37	1 #40
BH09 0.05-1.0	Fill	27/04/2019	S19-Ap38929	652817	10	17000	0	0	0	785	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #40
BH09 1.0-2.0	Fill	27/04/2019	S19-Ap38930	652817	10	17000	0	0	0	672	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #40
BH09 3.4-3.5	Fill	27/04/2019	M19-Ap39968	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10 0.15-1.0	Fill	27/04/2019	S19-Ap38933	652817	10	17000	0	0	0	852	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #40
BH10 0.4-0.5	Fill	27/04/2019	M19-Ap39532	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10 1.0-1.5	Fill	27/04/2019	S19-Ap38934	652817	10	17000	0	0	0	634	0.0006	0.0023	0.0253	0.0038	0.0178	0.0107	0.0269	0.004	0.0147	-	-	1 #14	1 #12	1 #16	1 #38	1 #37	1 #40
BH11 0.15-0.3	Fill	27/04/2019	M19-Ap39533	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 0.15-1.0	Fill	27/04/2019	S19-Ap38935	652817	10	17000	0	0	0	970	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #40
BH11 1.0-2.0	Fill	27/04/2019	S19-Ap38995	652817	10	17000	0	0	0	929	0	0.0005	0	0	0.0048	0.0038	0.0008	0.0008	0.0046	-	-	1 #40	1 #3	1 #4	1 #38	1 #37	1 #40
BH11 3.6-3.8	Fill	27/04/2019	M19-Ap39535	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 3.6-4.2	Fill	27/04/2019	S19-Ap38937	652817	10	17000	0	0	0	557	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #40
BH11 4.2-4.4	Natural	27/04/2019	M19-Ap39536	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12 0.1-1.0	Fill	27/04/2019	S19-Ap38938	652817	10	17000	0	0	0	904	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #40
BH12 1.0-2.0	Fill	27/04/2019	S19-Ap38939	652817	10	17000	0	0	0	770	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #40
BH12 1.9-2.0	Fill	27/04/2019	M19-Ap39537	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12 2.0-3.0	Fill	27/04/2019	S19-Ap38940	652817	10	17000	0	0	0	639	0	0.0003	0	0	0	0	0.0018	0.0018	0.0018	-	-	1 #40	1 #9	1 #40	1 #38	1 #37	1 #40
BH13 0.15-1.0	Fill	28/04/2019	S19-Ap38941	652817	10	17000	0	0	0	868	0	0.0089	0	0	0.1357	0.0678	0.0091	0.0091	0.0769	-	-	1 #40	1 #17	1 #16	1 #38	1 #37	1 #40
AQ-QA4	Fill	BH13 0.15-1.0	S19-Ap38972	652817	10	17000	0	0	0	782	0	0.0128	0	0	0.1391	0.0974	0.0029	0.0029	0.1003	-	-	1 #40	1 #32	1 #31	1 #38	1 #37	1 #40
AQ-QC4	Fill	BH13 0.15-1.0	216396-9	216396	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	<0.1	-	-	-	-	-	-
BH13 0.4-0.5	Fill	28/04/2019	M19-Ap39538	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 1.0-2.0	Fill	28/04/2019	S19-Ap38942	652817	10	17000	0	0	0	767	0	0.0018	0	0	0.0152	0.0091	0.0044	0.0044	0.0135	-	-	1 #40	1 #17	1 #16	1 #38	1 #37	1 #40
BH13 2.0-2.4	Fill	28/04/2019	S19-Ap38943	652817	10	17000	0	0	0	683	0	0.0005	0	0	0.0028	0.0017	0.0016	0.0016	0.0033	-	-	1 #40	1 #2	1 #1	1 #38	1 #37	1 #40
BH14 0.1-1.0	Fill	28/04/2019	S19-Ap38944	652817	10	17000	0	0	0	792	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #40
BH14 0.9-1.0	Fill	28/04/2019	M19-Ap39539	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 1.0-2.0	Fill	28/04/2019	S19-Ap38945	652817	10	17000	0	0	0	794	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #40
BH14 2.0-2.9	Fill	28/04/2019	S19-Ap38946	652817	10	17000	0	0	0	861	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #40
BH15 0.1-0.3	Fill	28/04/2019	M19-Ap39540	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15 0.1-0.3	Fill	28/04/2019	S19-Ap38947	652817	10	17000	0	0	0	431	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #40
BH15 0.3-1.0	Fill	28/04/2019	S19-Ap38948	652817	10	17000	0	0	0	783	0	0.0001	0	0	0	0	0.0011	0.0011	0.0011	-	-	1 #40	1 #10	1 #40	1 #38	1 #37	1 #40
BH15 1.0-2.0	Fill	28/04/2019	S19-Ap38949	652817	10	17000	0	0	0	737	0	0.0003	0	0	0	0	0.0023	0.0023	0.0023	-	-	1 #40	1 #10	1 #40	1 #38	1 #37	1 #40
BH15 2.6-2.7	Fill	28/04/2019	M19-Ap39541	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16 0.2-0.5	Fill	28/04/2019	S19-Ap38950	652817	10	17000	0	0	0	414	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #40
BH16 0.5-1.5	Fill	28/04/2019	S19-Ap38951	652817	10	17000	0	0	0	760	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #40
BH16 1.4-1.5	Fill	28/04/2019	M19-Ap39542	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16 1.5-2.4	Fill	28/04/2019	S19-Ap38952	652817	10	17000	0	0	0	721	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #40
BH17 0.1-0.4	Fill	28/04/2019	S19-Ap38953	652817	10	17000	0	0	0	663	0	0	0	0	0	0	0	0	0	-	-	1 #40	1 #40	1 #40	1 #38	1 #37	1 #40

Table A - Summary of Soil Analytical Results (JBS&G 2021)
Project Number: 56200
Project Name: Westmead Children's Hospital Stage 2 DSI

					Asbestsos - Field					Asbestos - Lab																
					Approx. Volume of Soil (L)	Soil Mass (g)	Mass ACM (g)	Mass Asbestos in ACM (g)*	Asbestos from ACM in Soil	Approx. Sample Mass	Asbestos from ACM in Soil	Asbestos from FA & AF in Soil	Mass ACM	Mass Asbestos in ACM	Mass FA	Mass Asbestos in FA	Mass AF	Mass Asbestos in AF	Mass Asbestos in FA & AF	Asbestos ID in Soil	Total Asbestos g/kg*	ACM - Comment	AF - Comment	FA - Comment	Organic Fibres - Comment	Respirable Fibres - Comment	Synthetic Fibres - Comment
					L	g	g	g	%w/w	g	%w/w	%w/w	g	g	g	g	g	g	g	Comment	g/kg	Comment	Comment	Comment	Comment	Comment	Comment
EQL																										
NEPM 2013 HSL Asbestos in Soil - Bonded ACM - Residential - HSL B									0.04		0.04															
NEPM 2013 HSL Asbestos in Soil - FA & AF - HSL												0.001														
Field ID	**Fill/Natural**	**Date / Parent**	**SampleCode**	**Report #**																						
BH17 0.4-0.5	Fill	28/04/2019	M19-Ap39543	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 0.4-1.4	Fill	28/04/2019	S19-Ap38954	652817	10	17000	0	0	0	770	0	0	0	0	0	0	0	0	0	-	-	$1^{\#40}$	$1^{\#40}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
AQ-QA5	Fill	BH17 0.4-1.4	S19-Ap38973	652817	10	17000	0	0	0	667	0	0	0	0	0	0	0	0	0	-	-	$1^{\#40}$	$1^{\#40}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
AQ-QC5	Fill	BH17 0.4-1.4	216396-10	216396	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	<0.1	-	-	-	-	-	-
BH17 1.4-1.8	Fill	28/04/2019	S19-Ap38955	652817	10	17000	0	0	0	680	0	0	0	0	0	0	0	0	0	-	-	$1^{\#40}$	$1^{\#40}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH17 1.8-2.0	Natural	28/04/2019	M19-Ap39544	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA5	Natural	BH17 1.8-2.0	M19-Ap39557	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC5	Natural	BH17 1.8-2.0	216396-5	216396	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH18 0.15-1.0	Fill	28/04/2019	S19-Ap38956	652817	10	17000	0	0	0	893	0	0	0	0	0	0	0	0	0	-	-	$1^{\#40}$	$1^{\#40}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH18 0.9-1.0	Fill	28/04/2019	M19-Ap39545	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH18 1.0-2.0	Fill	28/04/2019	S19-Ap38957	652817	10	17000	0	0	0	820	0	0	0	0	0	0	0	0	0	-	-	$1^{\#40}$	$1^{\#40}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH18 2.0-2.9	Fill	28/04/2019	S19-Ap38958	652817	10	17000	0	0	0	780	0	0	0	0	0	0	0	0	0	-	-	$1^{\#40}$	$1^{\#40}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH19 0.15-1.0	Fill	28/04/2019	S19-Ap38959	652817	10	17000	0	0	0	837	0	0	0	0	0	0	0	0	0	-	-	$1^{\#40}$	$1^{\#40}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH19 1.0-2.0	Fill	28/04/2019	S19-Ap38960	652817	10	17000	**33**	**4.95**	**0.029**	771	0.0064	0.0056	0.7048	0.0493	0.0534	0.0401	0.0028	0.0028	0.0429	-	-	$1^{\#7}$	$1^{\#23}$	$1^{\#16}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH19 2.5-2.7	Fill	28/04/2019	M19-Ap39546	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 3.5-3.7	Fill	28/04/2019	S19-Ap39000	652817	10	17000	0	0	0	400	0	0	0	0	0	0	0	0	0	-	-	$1^{\#40}$	$1^{\#40}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH19 3.7-3.9	Fill	28/04/2019	M19-Ap39547	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 3.7-4.3	Fill	28/04/2019	S19-Ap38962	652817	10	17000	**29**	**4.35**	**0.026**	462	0	0	0	0	0	0	0	0	0	-	-	$1^{\#40}$	$1^{\#40}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH19 4.1-4.3	Fill	28/04/2019	M19-Ap39548	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 4.3-4.5	Natural	28/04/2019	M19-Ap39549	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH20 0.15-1.0	Fill	28/04/2019	S19-Ap38963	652817	10	17000	0	0	0	843	0	0.0003	0	0	0	0	0.0026	0.0026	0.0026	-	-	$1^{\#40}$	$1^{\#3}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH20 2.0-3.0	Fill	28/04/2019	S19-Ap38964	652817	10	17000	0	0	0	888	0	0.0001	0	0	0	0	0.0005	0.0005	0.0005	-	-	$1^{\#40}$	$1^{\#10}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH20 2.9-3.0	Fill	28/04/2019	M19-Ap39550	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH20 3.2-4.0	Fill	28/04/2019	S19-Ap38965	652817	10	17000	0	0	0	622	0	0	0	0	0	0	0	0	0	-	-	$1^{\#40}$	$1^{\#40}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH20 4.4-4.5	Fill	28/04/2019	M19-Ap39551	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21 1.0-2.0	Fill	28/04/2019	S19-Ap38966	652817	10	17000	0	0	0	656	0	0	0	0	0	0	0	0	0	-	-	$1^{\#40}$	$1^{\#40}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#36}$
BH21 1.9-2.0	Fill	28/04/2019	M19-Ap39552	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21 3.0-4.0	Fill	28/04/2019	S19-Ap38967	652817	10	17000	0	0	0	340	0	0	0	0	0	0	0	0	0	-	-	$1^{\#40}$	$1^{\#40}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#36}$
BH21 4.4-4.5	Fill	28/04/2019	M19-Ap39553	652879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21 5.0-5.4	Fill	28/04/2019	S19-Ap38968	652817	10	17000	0	0	0	528	0	0	0	0	0	0	0	0	0	-	-	$1^{\#40}$	$1^{\#40}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH22 0.1-0.5	Fill	4/05/2019	S19-My08349	654086	10	17000	0	0	0	573	0	0.0031	0	0	0	0	0.02	0.018	0.018	-	-	$1^{\#40}$	$1^{\#21}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH22 0.5-0.6	Fill	4/05/2019	M19-My09485	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22 0.5-1.5	Fill	4/05/2019	S19-My08350	654086	10	17000	0	0	0	579	0	0.0031	0	0	0	0	0.02	0.018	0.018	-	-	$1^{\#40}$	$1^{\#30}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH22 1.5-2.5	Fill	4/05/2019	S19-My08351	654086	10	17000	0	0	0	803	0	0	0	0	0	0	0	0	0	-	-	$1^{\#40}$	$1^{\#40}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH22 3.6-3.7	Natural	4/05/2019	M19-My09486	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH23 0.1-0.3	Fill	4/05/2019	M19-My09487	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH23 0.1-1.0	Fill	4/05/2019	S19-My08352	654086	10	17000	0	0	0	576	0	0	0	0	0	0	0	0	0	-	-	$1^{\#40}$	$1^{\#40}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH23 0.5-0.6	Fill	4/05/2019	M19-My09488	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH23 1.0-1.1	Fill	4/05/2019	M19-My09489	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH24 0.1-0.3	Fill	4/05/2019	M19-My09490	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH24 0.1-1.0	Fill	4/05/2019	S19-My08353	654086	10	17000	0	0	0	673	0	0.0149	0	0	0	0	0.502	0.1004	0.1004	-	-	$1^{\#40}$	$1^{\#25}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH24 1.0-1.1	Fill	4/05/2019	M19-My09491	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH24 1.0-1.5	Fill	4/05/2019	S19-My08354	654086	10	17000	0	0	0	584	0	0.0096	0	0	0	0	0.28	0.056	0.056	-	-	$1^{\#40}$	$1^{\#19}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH25 0.1-0.2	Fill	4/05/2019	M19-My09492	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH25 0.1-1.0	Fill	4/05/2019	S19-My08355	654086	10	17000	0	0	0	667	0	0	0	0	0	0	0	0	0	-	-	$1^{\#40}$	$1^{\#40}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH25 2.0-2.1	Natural	4/05/2019	M19-My09493	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Summary of Soil Analytical Results (JBS&G 2021)
Project Number: 56200
Project Name: Westmead Children's Hospital Stage 2 DSI

					Asbestsos - Field					Asbestos - Lab																
					Approx. Volume of Soil (L)	Soil Mass (g)	Mass ACM (g)	Mass Asbestos in ACM (g)*	Asbestos from ACM in Soil	Approx. Sample Mass	Asbestos from ACM in Soil	Asbestos from FA & AF in Soil	Mass ACM	Mass Asbestos in ACM	Mass FA	Mass Asbestos in FA	Mass AF	Mass Asbestos in AF	Mass Asbestos in FA & AF	Asbestos ID in Soil	Total Asbestos g/kg*	ACM - Comment	AF - Comment	FA - Comment	Organic Fibres - Comment	Respirable Fibres - Comment	Synthetic Fibres - Comment
					L	g	g	g	%w/w	g	%w/w	%w/w	g	g	g	g	g	g	g	Comment	g/kg	Comment	Comment	Comment	Comment	Comment	Comment
EQL																										
NEPM 2013 HSL Asbestos in Soil - Bonded ACM - Residential - HSL B									0.04		0.04															
NEPM 2013 HSL Asbestos in Soil - FA & AF - HSL												0.001														
Field ID	**Fill/Natural**	**Date / Parent**	**SampleCode**	**Report #**																						
QA06	Natural	BH25 2.0-2.1	216850-3	216850	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH26 0.1-1.0	Fill	4/05/2019	S19-My08356	654086	10	17000	0	0	0	509	0	0.0142	0	0	0	0	0.08	0.072	0.072	-	-	$1^{\#40}$	$1^{\#21}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
AQ-QA6	Fill	BH26 0.1-1.0	216850-1	216850	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	<0.1	-	-	-	-	-
AQ-QC6	Fill	BH26 0.1-1.0	S19-My08377	654086	10	17000	0	0	0	493	0	0.0101	0	0	0	0	0.199	0.0498	0.0498	-	-	$1^{\#40}$	$1^{\#5}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH26 0.5-0.6	Fill	4/05/2019	M19-My09494	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH26 1.0-1.5	Fill	4/05/2019	S19-My08357	654086	10	17000	0	0	0	383	0	0	0	0	0	0	0	0	0	-	-	$1^{\#40}$	$1^{\#40}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH27 0.1-0.2	Fill	4/05/2019	M19-My09531	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH27 0.1-1.3	Fill	4/05/2019	S19-My08358	654086	10	17000	0	0	0	694	0	0	0	0	0	0	0	0	0	-	-	$1^{\#40}$	$1^{\#40}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH27 1.0-1.1	Fill	4/05/2019	M19-My09495	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH28 0.1-0.2	Fill	4/05/2019	M19-My09496	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH28 0.1-1.0	Fill	4/05/2019	S19-My08359	654086	10	17000	0	0	0	677	0	0.0017	0	0	0	0	0.013	0.0117	0.0117	-	-	$1^{\#40}$	$1^{\#21}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH28 1.0-1.6	Fill	4/05/2019	S19-My08360	654086	10	17000	0	0	0	636	0	0.0269	0	0	0	0	0.57	0.171	0.171	-	-	$1^{\#40}$	$1^{\#27}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH29 0.0-1.0	Fill	4/05/2019	S19-My08361	654086	10	17000	0	0	0	606	0	0.0076	0	0	0	0	0.0515	0.0464	0.0464	-	-	$1^{\#40}$	$1^{\#30}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH29 0.05-0.1	Fill	4/05/2019	M19-My09497	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH30 0.0-0.5	Fill	4/05/2019	S19-My08362	654086	10	17000	0	0	0	671	0	0	0	0	0	0	0	0	0	-	-	$1^{\#40}$	$1^{\#40}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH30 0.4-0.5	Fill	4/05/2019	M19-My09498	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH31 0.0-1.0	Fill	4/05/2019	S19-My08363	654086	10	17000	0	0	0	811	0	0.0012	0	0	0	0	0.0111	0.01	0.01	-	-	$1^{\#40}$	$1^{\#21}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH31 0.05-0.1	Fill	4/05/2019	M19-My09544	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH31 0.9-1.0	Fill	4/05/2019	M19-My09499	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH32 0.0-1.0	Fill	4/05/2019	S19-My08364	654086	10	17000	0	0	0	721	0	0	0	0	0	0	0	0	0	-	-	$1^{\#40}$	$1^{\#40}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH32 0.05-0.1	Fill	4/05/2019	M19-My09500	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH32 1.0-2.0	Fill	4/05/2019	S19-My08365	654086	10	17000	0	0	0	578	0	0.0045	0	0	0	0	0.087	0.0261	0.0261	-	-	$1^{\#40}$	$1^{\#25}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH32 1.9-2.0	Fill	4/05/2019	M19-My09501	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH32 2.0-2.2	Fill	4/05/2019	S19-My08366	654086	10	17000	0	0	0	678	0	0.0003	0	0	0	0	0.0035	0.0018	0.0018	-	-	$1^{\#40}$	$1^{\#6}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH33 0.1-0.2	Fill	4/05/2019	M19-My09502	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH33 0.1-1.2	Fill	4/05/2019	S19-My08367	654086	10	17000	0	0	0	606	0	0.0019	0	0	0	0	0.013	0.0117	0.0117	-	-	$1^{\#40}$	$1^{\#21}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH34 0.1-1.0	Fill	4/05/2019	S19-My08368	654086	10	17000	0	0	0	550	0	0	0	0	0	0	0	0	0	-	-	$1^{\#40}$	$1^{\#40}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH34 0.5-0.6	Fill	4/05/2019	M19-My09503	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH35 0.0-1.0	Fill	4/05/2019	S19-My08369	654086	10	17000	0	0	0	727	0	0	0	0	0	0	0	0	0	-	-	$1^{\#40}$	$1^{\#40}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH35 0.9-1.0	Fill	4/05/2019	M19-My09504	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH36 0.5-0.6	Fill	4/05/2019	M19-My09505	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH36 0.5-1.0	Fill	4/05/2019	S19-My08370	654086	10	17000	0	0	0	576	0	0.1078	0	0	1.321	0.3963	0.25	0.225	0.6213	-	-	$1^{\#40}$	$1^{\#21}$	$1^{\#20}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH36 1.0-1.8	Fill	4/05/2019	S19-My08371	654086	10	17000	0	0	0	715	0	0.1522	0	0	0	0	1.21	1.089	1.089	-	-	$1^{\#40}$	$1^{\#30}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH36 1.2-1.3	Fill	4/05/2019	M19-My09506	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH37 0.0-0.9	Fill	4/05/2019	S19-My08372	654086	10	17000	0	0	0	720	0	0	0	0	0	0	0	0	0	-	-	$1^{\#40}$	$1^{\#40}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH37 0.05-0.1	Fill	4/05/2019	M19-My09507	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH38 0.0-1.0	Fill	4/05/2019	S19-My08373	654086	10	17000	0	0	0	546	0	0	0	0	0	0	0	0	0	-	-	$1^{\#40}$	$1^{\#40}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH38 0.05-0.1	Fill	4/05/2019	M19-My09564	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH38 0.9-1.0	Fill	4/05/2019	M19-My09508	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH39 0.0-1.0	Fill	4/05/2019	S19-My08374	654086	10	17000	**42**	**6.3**	**0.037**	603	0.0503	0.018	2.53	0.3036	0	0	0.121	0.1089	0.1089	-	-	$1^{\#24}$	$1^{\#17}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH39 0.05-0.1	Fill	4/05/2019	M19-My09509	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH40 0.0-1.0	Fill	4/05/2019	S19-My08375	654086	10	17000	0	0	0	548	0	0.0058	0	0	0.0721	0.0216	0.0111	0.01	0.0316	-	-	$1^{\#40}$	$1^{\#21}$	$1^{\#22}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH40 0.4-0.5	Fill	4/05/2019	M19-My09510	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH41 0.0-1.0	Fill	4/05/2019	S19-My08376	654086	10	17000	**71**	**10.65**	**0.063**	517	0	0	0	0	0	0	0	0	0	-	-	$1^{\#40}$	$1^{\#40}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$
BH41 0.9-1.0	Fill	4/05/2019	M19-My09511	654111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH42 0.0-1.0	Fill	4/05/2019	S19-My08379	654086	-	-	-	-	-	564	0	0	0	0	0	0	0	0	0	-	-	$1^{\#40}$	$1^{\#40}$	$1^{\#40}$	$1^{\#38}$	$1^{\#37}$	$1^{\#40}$

Table A: Soil Analytical Summary Table (JBS&G 2015b)
Project Number: 50369
Project Name: Data Gap Assessment - Westmead Hospital Redevelopment

				Metals								Polycyclic Aromatic Hydrocarbons (PAHs)																				
				Arsenic (Total)	Cadmium	Chromium (Total)	Copper	Lead	Mercury (Inorganic)	Nickel	Zinc	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (lower bound)*	Benzo(a)pyrene TEQ (medium bound)	Benzo(a)pyrene TEQ (upper bound)*	Benzo(b,k)fluoranthene	Benzo(b,j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Carcinogenic PAHs as B(a)P TPE	Naphthalene	Phenanthrene	PAHs (Total)	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
Limit of Reporting (LOR)				2.00	0.40	1.00	1.00	1.00	0.05	1.00	1.00	0.10	0.10	0.10	0.10	0.05	0.50	0.50	0.50	0.20	0.50	0.10	0.50	0.10	0.10	0.10	0.10	0.10		0.10	0.10	0.50	0.10	
NEPC 2013 EIL, EILs Aged Sediment				**100**	-	-	**110**	**1100**	-	**200**	**310**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**170**	-	-	-	-
NEPC 2013 ESL Urban Residential and Public Open Space, Fine Soil (up to 2 mbgs)				-	-	-	-	-	-	-	-	-	-	-	-	**0.7**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPC 2013 Management Limits - Residential, Parkland and Public Open Space, Fine				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPC 2013 Soil HIL B				**500**	**150**	**500**	**30000**	**1200**	**120**	**1200**	**60000**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**4**	-	-	**400**	-	**400**
NEPC 2013 Soil HSL A and B for Vapour Intrusion - Clay 0 to 1				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**5**	-	-	-	-
NEPC 2013 Soil HSL A and B for Vapour Intrusion - Clay 1 to <2m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**nl**	-	-	-	-
NEPC 2013 Soil HSL A and B for Vapour Intrusion - Clay 2 to <4m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**nl**	-	-	-	-
NEPC 2013 Soil HSL A and B for Vapour Intrusion - Clay 4m+				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**nl**	-	-	-	-
Field ID	**Sample Depth (m bgs)**	**Sample Date**	**Lab Report**																															
RAQ094	1-1.5	11/04/2015	454229	6.1	<0.4	25	22	29	0.05	19	49	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
RAQ095	0.2-0.5	11/04/2015	454229	7.1	<0.4	16	21	170	0.07	7.7	90	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
RAQ096	0-0.2	11/04/2015	454229	4.5	<0.4	94	35	14	<0.05	80	74	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	5.25
RAQ110	0-0.1	17/04/2015	455077	9.7	<0.4	21	26	40	<0.05	11	51	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	5.25
RAQ112	0.3-0.5	17/04/2015	455077	3.1	<0.4	8.2	7.2	11	<0.05	<5	13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
RAQ114	0.3-0.6	17/04/2015	455077	5	<0.4	12	14	17	<0.05	<5	21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
RAQ117	0.5-1	17/04/2015	455077	17	<0.4	<5	24	6.5	<0.05	<5	20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	5.25
RAQ119	1.3-1.5	17/04/2015	455077	4.1	<0.4	5.7	39	18	<0.05	37	150	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	5.25
RAQ123	0-0.2	17/04/2015	455077	4.4	<0.4	6.1	31	18	<0.05	9.7	45	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	5.25
RAQ124	0.3-0.5	17/04/2015	455077	8.7	<0.4	14	28	29	<0.05	15	170	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
RAQ125	0.3-0.5	18/04/2015	455077	4.6	<0.4	7.7	35	23	<0.05	13	64	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	5.25
RAQ126	0.6-0.8	18/04/2015	455077	5.9	<0.4	13	14	15	<0.05	<5	23	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
RAQ127	0.7-0.9	24/04/2015	455493	19	<0.4	53	8.7	29	<0.05	8.7	13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
RAQ127	5.5-5.7	24/04/2015	455493	6.9	<0.4	14	31	23	<0.05	23	93	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
RAQ128	2.5-2.7	24/04/2015	455493	7.1	<0.4	6.6	7	12	<0.05	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
RAQ128	6.5-6.7	24/04/2015	455493	12	<0.4	13	39	16	<0.05	13	69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
RAQ129	1.5-1.7	24/04/2015	455493	4.7	<0.4	16	11	13	<0.05	<5	9.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
RAQ129	3.3-3.5	24/04/2015	455493	13	<0.4	6.2	14	11	<0.05	<5	13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
RAQ130	0-0.2	29/04/2015	456366	8.4	<0.4	12	38	23	<0.05	13	49	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	5.25
RAQ131	0.2-0.4	29/04/2015	456366	5.2	<0.4	12	30	24	<0.05	16	51	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
RAQ132	0.5-0.7	29/04/2015	456366	6.7	<0.4	7.1	7.8	15	<0.05	<5	7.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	5.25
RAQ133	2-2.2	29/04/2015	456366	6.9	<0.4	20	20	39	<0.05	<5	55	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
RAQ134	1-1.2	29/04/2015	456366	2.8	<0.4	12	14	110	<0.05	8.1	65	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
RAQ135	0.4-0.5	29/04/2015	456366	5	<0.4	8.1	29	24	<0.05	7.1	38	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	5.25
RAQ135	2.3-2.5	29/04/2015	456366	5.3	<0.4	15	17	24	<0.05	5.9	33	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
RAQ136	0.7-0.9	29/04/2015	456366	5.6	<0.4	27	22	60	<0.05	23	97	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	5.25
RAQ137	2.1-2.3	30/04/2015	456366	7.2	<0.4	16	29	93	0.11	5.4	160	<0.5	<0.5	0.7	1.8	1.9	2.5	2.8	3	-	1.8	1	1.8	1.6	<0.5	3.6	<0.5	0.8	2.796	<0.5	2.4	21	3.5	21.85
RAQ138	1.7-1.9	30/04/2015	456366	2.9	<0.4	11	9.8	29	<0.05	5.4	31	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
RAQ139	0.3-0.5	30/04/2015	456366	5.1	<0.4	5.6	36	19	<0.05	18	110	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
RAQ139	2.2-2.4	30/04/2015	456366	5.7	<0.4	14	15	90	0.08	5.9	150	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	0.605	<0.5	<0.5	1.4	0.7	6.15
RAQ140	0-0.2	30/04/2015	456366	4.8	<0.4	6.5	39	27	<0.05	22	100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	5.25
RAQ141	6.8-1	30/04/2015	456366	8.5	2.3	23	26	40	<0.05	31	170	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
RAQ142	0.3-0.5	30/04/2015	456366	5	<0.4	15	12	22	<0.05	<5	39	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	5.25
RAQ143	0.8-1	30/04/2015	456366	6.2	<0.4	17	24	19	<0.05	15	60	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
RAQ145	0.3-0.5	1/05/2015	456362	17	<0.4	36	14	26	<0.05	7.3	21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
RAQ149	0-0.5	1/05/2015	456362	19	<0.4	44	13	26	<0.05	6.6	12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	5.25
RAQ155	0-0.2	1/05/2015	456362	16	<0.4	41	11	30	<0.05	6.3	15	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
RAQ157	0-0.2	2/05/2015	456362	2.5	<0.4	12	14	17	<0.05	19	22	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
RAQ158	0-0.2	1/05/2015	456362	2.4	<0.4	28	17	14	<0.05	29	36	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	5.25
RAQ161	0-0.2	2/05/2015	456362	4.3	<0.4	15	10	12	<0.05	<5	6.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
RAQ172	0.3-0.4	2/05/2015	456362	2.6	<0.4	12	6.1	11	<0.05	<5	7.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
RAQ173	0.1-0.2	2/05/2015	456362	2.8	<0.4	13	6.4	13	<0.05	<5	7.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	5.25
RAQ177	0-0.2	5/05/2015	456583	3	<0.4	11	10	18	<0.05	<5	44	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	5.25
RAQ179	0-0.2	5/05/2015	456583	11	<0.4	18	41	28	0.07	5.6	69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
RAQ180	0-0.2	5/05/2015	456583/456881	<2	<0.4	6.1	23	21	0.06	5.8	61	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	5.25
RAQ181	0.3-0.5	5/05/2015	456583	2.8	<0.4	12	42	17	1.8	63	52	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
RAQ182	0.2-0.4	5/05/2015	456583	14	<0.4	42	8.9	23	<0.05	8.2	14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
RAQ183	0-0.2	5/05/2015	456583	5.2	<0.4	15	18	38	0.06	10	60	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
RAQ184	0-0.2	5/05/2015	456583	5.5	<0.4	15	12	25	<0.05	17	35	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	5.25
RAQ185	0-0.2	5/05/2015	456583	<2	0.6	120	44	5	<0.05	150	71	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
RAQ186	0-0.2	5/05/2015	456583	5.6	0.4	65	33	12	<0.05	51	33	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	5.25
RAQ187	0-0.2	5/05/2015	456583	6.6	<0.4	72	27	12	<0.05	73	41	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
QA07	Triplicate RAQ94 1.0-1.5	11/04/2015	126654	<4	<0.4	10	9	15	<0.1	4	20	<0.1	<0.1	<0.1	<0.1	<0.05	-	-	-	<0.2	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	0.086	<0.1	<0.1	-	<0.1	1.125
QA08	Triplicate RAQ128 6.5-6.7	27/04/2015	127108	10	<0.4	9	39	19	<0.1	15	68	<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	0.111	<0.1	<0.1	-	<0.1	0.8
QA09	Triplicate RAQ129 1.5-1.7	27/04/2015	127108	<4	<0.4	16	12	13	<0.1	4	10	<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	0.086	<0.1	<0.1	-	<0.1	0.775
QA11	Triplicate RAQ136 0.7-0.9	30/04/2015	127437	7	0.5	21	20	42	<0.1	13	79	<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	0.086	<0.1	<0.1	-	<0.1	1.125
QA12	Triplicate RAQ138 1.7-1.9	30/04/2015	127437	5	<0.4	17	15	34	<0.1	7	45	<0.1	<0.1	<0.1	<0.1	0.08	<0.5	<0.5	<0.5	<0.2	-	<0.1	-	<0.1	<0.1	0.1	<0.1	<0.1	0.141	<0.1	<0.1	-	0.1	0.93
QC07	Duplicate RAQ94 1.0-1.5	11/04/2015	454229	<2	<0.4	5.9	5.4	9.4	<0.05	<5	14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	5.25
QC08	Duplicate RAQ128 6.5-6.7	24/04/2015	455493	3.5	<0.4	12	9.6	11	<0.05	<5	7.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
QC09	Duplicate RAQ129 1.5-1.7	24/04/2015	455493	10	<0.4	10	34	16	0.06	14	79	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
QC11	Duplicate RAQ136 0.7-0.9	30/04/2015	456366	6.3	<0.4	21	21	58	<0.05	17	94	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	5.25
QC12	Duplicate RAQ138 1.7-1.9	30/04/2015	456366	4.2	<0.4	11	11	24	<0.05	<5	23	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
QC16	Duplicate RAQ145 0.3-0.5	2/05/2015	456362	5.4	<0.4	12	37	23	<0.05	38	130	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.605	<0.5	<0.5	<0.5	<0.5	3.75
QCA16	Triplicate RAQ145 0.3-0.5	2/05/2015	127409	9	0.5	21	20	21	<0.1	13	32	<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	0.086	<0.1	<0.1	-	<0.1	0.775

Notes: nl = non limiting
mg/kg = milligram(s) per kilogram

Table A: Soil Analytical Summary Table (JBS&G 2015b)
Project Number: 50369
Project Name: Data Gap Assessment - Westmead Hospital Redevelopment

				BTEX								Total Recoverable Hydrocarbons (TRHs)							Chlor. Benzenes	Polychlorinated Biphenyls (PCBs)									
				Benzene	Ethylbenzene	BTEX (Sum of Total)	Toluene	Xylene (m & p)	Xylene (o)	Xylene (Total)	Xylene (Sum of Total)	>C10-C16 Fraction	>C16-C34 Fraction	>C34-C40 Fraction	C6-C10 Fraction	>C10 - C16 less Naphthalene (F2)	>C10-C40 (Sum of Total)	C6 - C10 less BTEX (F1)	Hexachlorobenzene	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	PCBs (Total)	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	mg/kg	mg/kg	mg/kg	mg/kg
Limit of Reporting (LOR)				0.10	0.10		0.10	0.20	0.10	0.30		50.00	100.00	100.00	20.00	50.00		20.00	0.05	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	
NEPC 2013 EIL, EILs Aged Sediment				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPC 2013 ESL Urban Residential and Public Open Space, Fine Soil (up to 2 mbgs)				65	125	-	105	-	-	45	-	120	1300	5600	180	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPC 2013 Management Limits - Residential, Parkland and Public Open Space, Fine				-	-	-	-	-	-	-	-	-	-	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPC 2013 Soil HIL B				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-	-	-	-	1	1
NEPC 2013 Soil HSL A and B for Vapour Intrusion - Clay 0 to 1				0.7	nl	-	480	-	-	110	-	-	-	-	-	280	-	50	-	-	-	-	-	-	-	-	-	-
NEPC 2013 Soil HSL A and B for Vapour Intrusion - Clay 1 to <2m				1	nl	-	nl	-	-	310	-	-	-	-	-	nl	-	90	-	-	-	-	-	-	-	-	-	-
NEPC 2013 Soil HSL A and B for Vapour Intrusion - Clay 2 to <4m				2	nl	-	nl	-	-	nl	-	-	-	-	-	nl	-	150	-	-	-	-	-	-	-	-	-	-
NEPC 2013 Soil HSL A and B for Vapour Intrusion - Clay 4m+				3	nl	-	nl	-	-	nl	-	-	-	-	-	nl	-	290	-	-	-	-	-	-	-	-	-	-
Field ID	Sample Depth (m bgs)	Sample Date	Lab Report																									
RAQ094	1-1.5	11/04/2015	454229	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ095	0.2-0.5	11/04/2015	454229	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ096	0-0.2	11/04/2015	454229	<0.1	<0.1	0.8	0.2	0.3	0.2	0.4	0.5	<50	<100	<100	<20	<50	125	<20	<0.05	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RAQ110	0-0.1	17/04/2015	455077	<0.1	<0.1	0.3	<0.1	<0.2	<0.1	<0.3	0.15	<50	<100	<100	<20	<50	125	<20	<0.05	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RAQ112	0.3-0.5	17/04/2015	455077	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ114	0.3-0.6	17/04/2015	455077	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ117	0.5-1	17/04/2015	455077	<0.1	<0.1	0.3	<0.1	<0.2	<0.1	<0.3	0.15	<50	<100	<100	<20	<50	125	<20	<0.05	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RAQ119	1.3-1.5	17/04/2015	455077	<0.1	<0.1	0.3	<0.1	<0.2	<0.1	<0.3	0.15	<50	<100	<100	<20	<50	125	<20	<0.05	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RAQ123	0-0.2	17/04/2015	455077	<0.1	<0.1	0.3	<0.1	<0.2	<0.1	<0.3	0.15	<50	<100	<100	<20	<50	125	<20	<0.05	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RAQ124	0.3-0.5	17/04/2015	455077	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ125	0.3-0.5	18/04/2015	455077	<0.1	<0.1	0.3	<0.1	<0.2	<0.1	<0.3	0.15	<50	<100	<100	<20	<50	125	<20	<0.05	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RAQ126	0.6-0.8	18/04/2015	455077	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ127	0.7-0.9	24/04/2015	455493	<0.1	<0.1	0.3	<0.1	<0.2	<0.1	<0.3	0.15	<50	<100	<100	<20	<50	125	<20	-	-	-	-	-	-	-	-	-	-	-
RAQ127	5.5-5.7	24/04/2015	455493	<0.1	0.1	1.85	0.2	1.2	0.3	1.4	1.5	<50	<100	<100	<20	<50	125	<20	-	-	-	-	-	-	-	-	-	-	-
RAQ128	2.5-2.7	24/04/2015	455493	<0.1	<0.1	0.3	<0.1	<0.2	<0.1	<0.3	0.15	<50	<100	<100	<20	<50	125	<20	-	-	-	-	-	-	-	-	-	-	-
RAQ128	6.5-6.7	24/04/2015	455493	<0.1	<0.1	0.3	<0.1	<0.2	<0.1	<0.3	0.15	<50	<100	<100	<20	<50	125	<20	-	-	-	-	-	-	-	-	-	-	-
RAQ129	1.5-1.7	24/04/2015	455493	<0.1	<0.1	0.3	<0.1	<0.2	<0.1	<0.3	0.15	<50	<100	<100	<20	<50	125	<20	-	-	-	-	-	-	-	-	-	-	-
RAQ129	3.3-3.5	24/04/2015	455493	<0.1	<0.1	0.3	<0.1	<0.2	<0.1	<0.3	0.15	<50	<100	<100	<20	<50	125	<20	-	-	-	-	-	-	-	-	-	-	-
RAQ130	0-0.2	29/04/2015	456366	<0.1	<0.1	0.3	<0.1	<0.2	<0.1	<0.3	0.15	<50	<100	<100	<20	<50	125	<20	<0.05	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RAQ131	0.2-0.4	29/04/2015	456366	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ132	0.5-0.7	29/04/2015	456366	<0.1	<0.1	0.3	<0.1	<0.2	<0.1	<0.3	0.15	<50	<100	<100	<20	<50	125	<20	<0.05	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RAQ133	2-2.2	29/04/2015	456366	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ134	1-1.2	29/04/2015	456366	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ135	0.4-0.5	29/04/2015	456366	<0.1	<0.1	0.3	<0.1	<0.2	<0.1	<0.3	0.15	<50	<100	<100	<20	<50	125	<20	<0.05	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RAQ135	2.3-2.5	29/04/2015	456366	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ136	0.7-0.9	29/04/2015	456366	<0.1	<0.1	0.3	<0.1	<0.2	<0.1	<0.3	0.15	<50	<100	<100	<20	<50	125	<20	<0.05	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RAQ137	2.1-2.3	30/04/2015	456366	<0.1	<0.1	0.3	<0.1	<0.2	<0.1	<0.3	0.15	<50	120	<100	<20	<50	195	<20	<0.05	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RAQ138	1.7-1.9	30/04/2015	456366	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ139	0.3-0.5	30/04/2015	456366	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ139	2.2-2.4	30/04/2015	456366	<0.1	<0.1	0.3	<0.1	<0.2	<0.1	<0.3	0.15	<50	<100	<100	<20	<50	125	<20	<0.05	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RAQ140	0-0.2	30/04/2015	456366	<0.1	<0.1	0.3	<0.1	<0.2	<0.1	<0.3	0.15	<50	<100	<100	<20	<50	125	<20	<0.05	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RAQ141	6.8-1	30/04/2015	456366	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ142	0.3-0.5	30/04/2015	456366	<0.1	<0.1	0.3	<0.1	<0.2	<0.1	<0.3	0.15	<50	<100	<100	<20	<50	125	<20	<0.05	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RAQ143	0.8-1	30/04/2015	456366	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ145	0.3-0.5	1/05/2015	456362	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ149	0-0.5	1/05/2015	456362	<0.1	<0.1	0.3	<0.1	<0.2	<0.1	<0.3	0.15	<50	<100	<100	<20	<50	125	<20	<0.05	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RAQ155	0-0.2	1/05/2015	456362	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ157	0-0.2	2/05/2015	456362	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ158	0-0.2	1/05/2015	456362	<0.1	<0.1	0.3	<0.1	<0.2	<0.1	<0.3	0.15	<50	710	800	<20	<50	1535	<20	<0.05	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RAQ161	0-0.2	2/05/2015	456362	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ172	0.3-0.4	2/05/2015	456362	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ173	0.1-0.2	2/05/2015	456362	<0.1	<0.1	0.3	<0.1	<0.2	<0.1	<0.3	0.15	<50	<100	<100	<20	<50	125	<20	<0.05	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RAQ177	0-0.2	5/05/2015	456583	<0.1	<0.1	0.3	<0.1	<0.2	<0.1	<0.3	0.15	<50	<100	<100	<20	<50	125	<20	<0.05	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RAQ179	0-0.2	5/05/2015	456583	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ180	0-0.2	5/05/2015	456583/456881	<0.1	<0.1	0.3	<0.1	<0.2	<0.1	<0.3	0.15	<50	<100	<100	<20	<50	125	<20	<0.05	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RAQ181	0.3-0.5	5/05/2015	456583	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ182	0.2-0.4	5/05/2015	456583	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ183	0-0.2	5/05/2015	456583	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ184	0-0.2	5/05/2015	456583	<0.1	<0.1	0.3	<0.1	<0.2	<0.1	<0.3	0.15	<50	<100	<100	<20	<50	125	<20	<0.05	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RAQ185	0-0.2	5/05/2015	456583	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ186	0-0.2	5/05/2015	456583	<0.1	<0.1	0.3	<0.1	<0.2	<0.1	<0.3	0.15	<50	<100	<100	<20	<50	125	<20	<0.05	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RAQ187	0-0.2	5/05/2015	456583	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA07	Triplicate RAQ94 1.0-1.5	11/04/2015	126654	<0.2	<1	2.35	<0.5	<2	<1	-	1.5	<50	<100	<100	<25	<50	125	<25	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	0.35
QA08	Triplicate RAQ128 6.5-6.7	27/04/2015	127108	<0.2	<1	2.35	<0.5	<2	<1	-	1.5	<50	<100	<100	<25	<50	125	<25	-	-	-	-	-	-	-	-	-	-	-
QA09	Triplicate RAQ129 1.5-1.7	27/04/2015	127108	<0.2	<1	2.35	<0.5	<2	<1	-	1.5	<50	<100	<100	<25	<50	125	<25	-	-	-	-	-	-	-	-	-	-	-
QA11	Triplicate RAQ136 0.7-0.9	30/04/2015	127437	<0.2	<1	2.35	<0.5	<2	<1	-	1.5	<50	<100	<100	<25	<50	125	<25	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	0.35
QA12	Triplicate RAQ138 1.7-1.9	30/04/2015	127437	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC07	Duplicate RAQ94 1.0-1.5	11/04/2015	454229	<0.1	<0.1	0.3	<0.1	<0.2	<0.1	<0.3	0.15	<50	<100	<100	<20	<50	125	<20	<0.05	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QC08	Duplicate RAQ128 6.5-6.7	24/04/2015	455493	<0.1	<0.1	0.3	<0.1	<0.2	<0.1	<0.3	0.15	<50	<100	<100	<20	<50	125	<20	-	-	-	-	-	-	-	-	-	-	-
QC09	Duplicate RAQ129 1.5-1.7	24/04/2015	455493	<0.1	<0.1	0.3	<0.1	<0.2	<0.1	<0.3	0.15	<50	<100	<100	<20	<50	125	<20	-	-	-	-	-	-	-	-	-	-	-
QC11	Duplicate RAQ136 0.7-0.9	30/04/2015	456366	<0.1	<0.1	0.3	<0.1	<0.2	<0.1	<0.3	0.15	<50	<100	<100	<20	<50	125	<20	<0.05	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QC12	Duplicate RAQ138 1.7-1.9	30/04/2015	456366	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC16	Duplicate RAQ145 0.3-0.5	2/05/2015	456362	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QCA16	Triplicate RAQ145 0.3-0.5	2/05/2015	127409	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes: nl = non limiting
mg/kg = milligram(s) per kilogram

Table A: Soil Analtyical Summary Table (JBS&G 2015b)
Project Number: 50369
Project Name: Data Gap Assessment - Westmead Hospital Redevelopment

				Phenols											Organochlorine Pesticides (OCPs)																														
				2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2-chlorophenol	2-Methylphenol	2-nitrophenol	3- & 4-Methylphenol	4-Chloro-3-Methylphenol	Phenol	Phenols (Total)	Aldrin	Aldrin + Dieldrin (Sum of Total)	alpha-BHC	beta-BHC	delta-BHC	Chlordane	DDD	DDE	DDT	DDT+DDE+DDD (Sum of Total)	Dieldrin	Endosulfan alpha	Endosulfan beta	Endosulfan Sulphate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor Epoxide	Lindane	Methoxychlor	Pentachlorophenol	Toxaphene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Limit of Reporting (LOR)				0.50	0.50	0.50	0.50	0.50	0.50	0.50	1.00	0.50	0.50	0.10	0.05		0.05	0.05	0.05	0.10	0.05	0.05	0.05		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.10	1.00	1.00
NEPC 2013 EIL, EILs Aged Sediment				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPC 2013 ESL Urban Residential and Public Open Space, Fine Soil (up to 2 mbgs)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPC 2013 Management Limits - Residential, Parkland and Public Open Space, Fine				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPC 2013 Soil HIL B				-	-	-	-	-	-	-	-	-	45000	-	-	10	-	-	-	90	-	-	-	600	-	-	-	-	-	20	-	-	-	10	-	-	500	130	30
NEPC 2013 Soil HSL A and B for Vapour Intrusion - Clay 0 to 1				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPC 2013 Soil HSL A and B for Vapour Intrusion - Clay 1 to <2m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPC 2013 Soil HSL A and B for Vapour Intrusion - Clay 2 to <4m				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPC 2013 Soil HSL A and B for Vapour Intrusion - Clay 4m+				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field ID	**Sample Depth (m bgs)**	**Sample Date**	**Lab Report**																																								
RAQ094	1-1.5	11/04/2015	454229	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ095	0.2-0.5	11/04/2015	454229	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ096	0-0.2	11/04/2015	454229	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	-	<0.05	0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<1	<1
RAQ110	0-0.1	17/04/2015	455077	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	-	<0.05	0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<1	<1
RAQ112	0.3-0.5	17/04/2015	455077	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ114	0.3-0.6	17/04/2015	455077	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ117	0.5-1	17/04/2015	455077	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	-	<0.05	0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<1	<1
RAQ119	1.3-1.5	17/04/2015	455077	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	-	<0.05	0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<1	<1
RAQ123	0-0.2	17/04/2015	455077	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	-	<0.05	0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<1	<1
RAQ124	0.3-0.5	17/04/2015	455077	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ125	0.3-0.5	18/04/2015	455077	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	-	<0.05	0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<1	<1
RAQ126	0.6-0.8	18/04/2015	455077	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ127	0.7-0.9	24/04/2015	455493	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ127	5.5-5.7	24/04/2015	455493	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ128	2.5-2.7	24/04/2015	455493	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ128	6.5-6.7	24/04/2015	455493	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ129	1.5-1.7	24/04/2015	455493	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ129	3.3-3.5	24/04/2015	455493	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ130	0-0.2	29/04/2015	456366	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	-	<0.05	0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<1	<1
RAQ131	0.2-0.4	29/04/2015	456366	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ132	0.5-0.7	29/04/2015	456366	-	-	-	-	-	-	-	-	-	-	-	<0.05	0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	-	<1
RAQ133	2-2.2	29/04/2015	456366	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ134	1-1.2	29/04/2015	456366	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ135	0.4-0.5	29/04/2015	456366	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	-	<0.05	0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<1	<1
RAQ135	2.3-2.5	29/04/2015	456366	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ136	0.7-0.9	29/04/2015	456366	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	-	<0.05	0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<1	<1
RAQ137	2.1-2.3	30/04/2015	456366	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	-	<0.05	0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<1	<1
RAQ138	1.7-1.9	30/04/2015	456366	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ139	0.3-0.5	30/04/2015	456366	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ139	2.2-2.4	30/04/2015	456366	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	-	<0.05	0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<1	<1
RAQ140	0-0.2	30/04/2015	456366	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	-	<0.05	0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<1	<1
RAQ141	6.8-1	30/04/2015	456366	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ142	0.3-0.5	30/04/2015	456366	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	-	<0.05	0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<1	<1
RAQ143	0.8-1	30/04/2015	456366	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ145	0.3-0.5	1/05/2015	456362	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ149	0-0.5	1/05/2015	456362	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	-	<0.05	0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<1	<1
RAQ155	0-0.2	1/05/2015	456362	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ157	0-0.2	2/05/2015	456362	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ158	0-0.2	1/05/2015	456362	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	-	<0.05	0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<1	<1
RAQ161	0-0.2	2/05/2015	456362	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ172	0.3-0.4	2/05/2015	456362	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ173	0.1-0.2	2/05/2015	456362	-	-	-	-	-	-	-	-	-	-	-	<0.05	0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	-	<1
RAQ177	0-0.2	5/05/2015	456583	-	-	-	-	-	-	-	-	-	-	1.8	<0.05	0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	-	<1
RAQ179	0-0.2	5/05/2015	456583	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ180	0-0.2	5/05/2015	456583/456881	-	-	-	-	-	-	-	-	-	-	2.9	<0.05	0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	-	<1
RAQ181	0.3-0.5	5/05/2015	456583	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ182	0.2-0.4	5/05/2015	456583	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ183	0-0.2	5/05/2015	456583	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ184	0-0.2	5/05/2015	456583	-	-	-	-	-	-	-	-	-	-	0.1	<0.05	0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	-	<1
RAQ185	0-0.2	5/05/2015	456583	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAQ186	0-0.2	5/05/2015	456583	-	-	-	-	-	-	-	-	-	-	0.6	<0.05	0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	-	<1
RAQ187	0-0.2	5/05/2015	456583	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA07	Triplicate RAQ94 1.0-1.5	11/04/2015	126654	-	-	-	-	-	-	-	-	-	-	<5	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.15	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-
QA08	Triplicate RAQ128 6.5-6.7	27/04/2015	127108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA09	Triplicate RAQ129 1.5-1.7	27/04/2015	127108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA11	Triplicate RAQ136 0.7-0.9	30/04/2015	127437	-	-	-	-	-	-	-	-	-	-	-	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.15	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-
QA12	Triplicate RAQ138 1.7-1.9	30/04/2015	127437	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC07	Duplicate RAQ94 1.0-1.5	11/04/2015	454229	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	-	<0.05	0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<1	<1
QC08	Duplicate RAQ128 6.5-6.7	24/04/2015	455493	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC09	Duplicate RAQ129 1.5-1.7	24/04/2015	455493	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC11	Duplicate RAQ136 0.7-0.9	30/04/2015	456366	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	-	<0.05	0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<1	<1
QC12	Duplicate RAQ138 1.7-1.9	30/04/2015	456366	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC16	Duplicate RAQ145 0.3-0.5	2/05/2015	456362	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QCA16	Triplicate RAQ145 0.3-0.5	2/05/2015	127409	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes: nl = non limiting
mg/kg = milligram(s) per kilogram

Table B: Asbestos Summary Table
Job #: 60807
Client: Health Infrastructure
Name: CWMHSR Redevelopment

Health Screening Level Asbestos Concentration in Soil (% w/w)	
Category	**HSL B**
Bonded ACM in soils	0.04
FA and AF in soils	**0.001**
ACM detected in soil	**Bold**

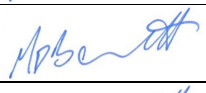
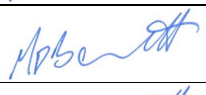
Field Asbestos Quantification												Laboratory Analysis									
Sample ID	Fill Description	Date	Lab Report Number	Volume of Soil (L)	Soil Mass (g)	Mass ACM (g)	Mass Asbestos in ACM (g)	[Asbestos from ACM in soil] (%w/w)	Mass FA (g)	Mass Asbestos in FA (g)	[Asbestos from FA in soil] (%w/w)	Sample Mass (g)	Mass ACM (g)	Mass Asbestos in ACM (g)	[Asbestos from ACM in soil] (%w/w)	Mass FA (g)	Mass Asbestos in FA (g)	AF Mass (g)	Mass Asbestos in AF (g)	Mass Asbestos in FA & AF (g)	[Asbestos from FA & AF in soil] (%w/w)
RAQ093-0-1	Gravelly Clay	11.04.2015	455496	10.00	16300.00	0.00	0.0000	0.0000	No FA observed	0.00	0.0000	555	0.0000	0.0000	<LOR	0.0000	0.0000	0.0000	0.0000	0.0000	<LOR
RAQ093-1-2	Gravelly Clay	11.04.2015	455496	10.00	16300.00	0.00	0.0000	0.0000	No FA observed	0.00	0.0000	662	0.9208	0.1381	**0.0209**	0.0000	0.0000	0.0000	0.0000	0.0000	<LOR
RAQ094-0-1	Gravelly Clay	11.04.2015	455496	10.00	16300.00	0.00	0.0000	0.0000	No FA observed	0.00	0.0000	790	0.0000	0.0000	<LOR	0.0000	0.0000	0.0047	0.0047	0.0047	**0.0006**
RAQ094-1-2	Gravelly Clay	11.04.2015	455496	10.00	16300.00	0.00	0.0000	0.0000	No FA observed	0.00	0.0000	567	0.0000	0.0000	<LOR	0.0000	0.0000	0.0004	0.0004	0.0004	**0.0001**
RAQ095-0-1	Gravelly Clay	11.04.2015	455496	10.00	16300.00	0.00	0.0000	0.0000	No FA observed	0.00	0.0000	603	0.0000	0.0000	<LOR	0.0972	0.0389	0.0000	0.0000	0.0389	**0.0065**
RAQ096-0-1	Sandy Gravelly Clay	11.04.2015	455496	10.00	16300.00	0.00	0.0000	0.0000	No FA observed	0.00	0.0000	873	0.0000	0.0000	<LOR	0.0265	0.0159	0.2203	0.0881	0.1040	**0.0119**
RAQ096-1-1.5	Shale	11.04.2015	455496	10.00	16300.00	0.00	0.0000	0.0000	No FA observed	0.00	0.0000	497	0.0000	0.0000	<LOR	0.0000	0.0000	0.0000	0.0000	0.0000	<LOR
RAQ097-0-0.8	Sandy Gravelly Clay	11.04.2015	455496	10.00	16300.00	0.00	0.0000	0.0000	No FA observed	0.00	0.0000	636	0.0000	0.0000	<LOR	0.0096	0.0067	0.0028	0.0028	0.0095	**0.0015**
RAQ097-0.8-1.5	Clay	11.04.2015	455496	10.00	16300.00	0.00	0.0000	0.0000	No FA observed	0.00	0.0000	-	-	-	-	-	-	-	-	-	-
RAQ098-0-1	Gravelly Clay	11.04.2015	455496	10.00	16300.00	0.00	0.0000	0.0000	No FA observed	-	-	753	0.0000	0.0000	<LOR	0.0000	0.0000	0.0061	0.0061	0.0061	**0.0008**
RAQ099-0-1	Gravelly Clay	17.04.2015	455496	10.00	16300.00	0.00	0.0000	0.0000	No FA observed	0.00	0.0000	674	0.0000	0.0000	<LOR	0.0000	0.0000	0.0018	0.0018	0.0018	**0.0003**
RAQ099-1-1.5	Clay	17.04.2015	455496	10.00	16300.00	0.00	0.0000	0.0000	No FA observed	0.00	0.0000	-	-	-	-	-	-	-	-	-	-
RAQ116-0-1	Gravelly Clay	17.04.2015	455074	-	-	**ACM observed**	-	-	No FA observed	0.00	-	504	7.7929	1.1680	**0.2317**	0.3151	0.1576	1.5150	1.5150	1.6726	**0.3319**
RAQ116-1-2	Gravelly Clay	17.04.2015	455074	-	-	**ACM observed**	-	-	No FA observed	0.00	-	524	28.8045	4.3207	**0.8246**	0.0000	0.0000	1.4257	0.6416	0.6416	**0.1224**
RAQ116-2-3	Gravelly Clay	17.04.2015	455074	-	-	**ACM observed**	-	-	No FA observed	0.00	-	409	0.7718	0.1158	**0.0283**	0.0000	0.0000	0.0089	0.0089	0.0089	**0.0022**
RAQ116-3-3.6	Gravelly Clay	17.04.2015	455074	-	-	**ACM observed**	-	-	No FA observed	0.00	-	-	-	-	-	-	-	-	-	-	-
RAQ117-0-1	Gravelly Clay	17.04.2015	455074	10.00	16300.00	0.00	0.0000	0.0000	No FA observed	0.00	0.0000	1102	0.0000	0.0000	0.0000	0.0030	0.0024	0.0000	0.0000	0.0024	**0.0002**
RAQ117-1-2	Gravelly Clay	17.04.2015	455074	10.00	16300.00	0.00	0.0000	0.0000	No FA observed	0.00	0.0000	969	0.0000	0.0000	0.0000	0.1264	0.0885	0.0000	0.0000	0.0885	**0.0091**
RAQ117-2-3	Gravelly Clay	17.04.2015	455074	10.00	16300.00	0.00	0.0000	0.0000	No FA observed	0.00	0.0000	941	0.0000	0.0000	0.0000	0.0000	0.0000	0.0005	0.0005	0.0005	**0.0001**
RAQ117-3-3.4	Gravelly Clay	17.04.2015	455074	10.00	16300.00	0.00	0.0000	0.0000	No FA observed	0.00	0.0000	-	-	-	-	-	-	-	-	-	-
RAQ118-0-1	Gravelly Clay	18.04.2015	455074	10.00	16300.00	0.00	0.0000	0.0000	No FA observed	0.00	0.0000	1102	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	<LOR
RAQ118-1-2	Gravelly Clay	18.04.2015	455074	10.00	16300.00	0.00	0.0000	0.0000	AF/FA observed	5.00	**0.0307**	794	2.6493	0.3974	**0.0501**	0.0505	0.0354	0.0165	0.0165	0.0519	**0.0065**
RAQ118-2-2.7	Gravelly Clay	18.04.2015	455074	10.00	16300.00	0.00	0.0000	0.0000	No FA observed	0.00	0.0000	802	0.0000	0.0000	<LOR	0.0000	0.0000	0.0051	0.0051	0.0051	**0.0006**
RAQ119-0-1	Gravelly Clay	21.04.2015	455074	10.00	16300.00	0.00	0.0000	0.0000	No FA observed	0.00	0.0000	951	0.0000	0.0000	<LOR	0.0110	0.0077	0.5020	0.1004	0.1081	**0.0114**
RAQ119-1-2	Gravelly Clay	21.04.2015	455074	10.00	16300.00	0.00	0.0000	0.0000	No FA observed	0.00	0.0000	899	0.0000	0.0000	<LOR	0.0071	0.0057	0.0000	0.0000	0.0057	**0.0006**
RAQ119-2-3	Gravelly Clay	21.04.2015	455074	10.00	16300.00	0.00	0.0000	0.0000	No FA observed	0.00	0.0000	836	0.0000	0.0000	<LOR	0.0000	0.0000	0.0000	0.0000	0.0000	**<LOR**
RAQ119-3-3.8	Gravelly Clay	21.04.2015	455074	10.00	16300.00	0.00	0.0000	0.0000	No FA observed	0.00	0.0000	-	-	-	-	-	-	-	-	-	-
RAQ122-0-1	Gravelly Clay	18.04.2015	455074	10.00	16300.00	0.00	0.0000	0.0000	AF/FA observed	2.00	**0.0123**	782	0.0000	0.0000	<LOR	0.7743	0.4646	0.0112	0.0112	0.4758	**0.0608**
RAQ122-1-2	Gravelly Clay	18.04.2015	455074	10.00	16300.00	1.89	0.2835	**0.0017**	AF/FA observed	2.00	**0.0123**	815	0.0000	0.0000	<LOR	0.0653	0.0522	0.0084	0.0084	0.0606	**0.0074**
RAQ122-2-2.5	Gravelly Clay	18.04.2015	455074	10.00	16300.00	0.00	0.0000	0.0000	No FA observed	0.00	0.0000	812	0.5216	0.0782	**0.0096**	0.2687	0.1881	0.1260	0.0252	0.2133	**0.0263**
RAQ134-0-1	Silty Clay	29.04.2015	456250	10.00	16300.00	0.00	0.0000	0.0000	No FA observed	0.00	0.0000	561	0.0000	0.0000	<LOR	0.0000	0.0000	0.0000	0.0000	0.0000	**<LOR**
RAQ134-1-2	Clay	29.04.2015	456250	10.00	16300.00	0.00	0.0000	0.0000	No FA observed	0.00	0.0000	635	0.0000	0.0000	<LOR	0.0996	0.0299	0.0000	0.0000	0.0299	**0.0047**
RAQ134-2-2.7	Clay	29.04.2015	456250	10.00	16300.00	0.00	0.0000	0.0000	No FA observed	0.00	0.0000	600	0.0000	0.0000	<LOR	0.0000	0.0000	0.0000	0.0000	0.0000	**<LOR**
AQ005-0.0-0.1	Silty Sand	19-11-2014	439413	0.0000	0.0000	**ACM observed**	0.0000	0.0000	No FA AQ conducted.	0.00	0.0000	880	0.0000	0.0000	<0.0100	0.0000	0.0000	0.0000	0.0000	0.0000	**0.0000**
AQ005-0.1-0.5	Silty Clay	19-11-2014	439413	20.00	32600.00	2.0000	0.3000	**0.0009**	No FA AQ conducted.	0.00	0.0000	872	0.0000	0.0000	<0.0100	0.0000	0.0000	0.0008	0.0008	0.0008	**0.0001**
AQ016-0.0-0.1	Silty Sand	19-11-2014	439413	0.0000	0.0000	0.00	0.0000	0.0000	No FA AQ conducted.	0.00	0.0000	1002	0.0000	0.0000	<0.0100	0.0000	0.0000	0.0000	0.0000	0.0000	**0.0000**
AQ016-0.1-0.5	Gravelly Clay	19-11-2014	439413	20.00	32600.00	0.00	0.0000	0.0000	No FA AQ conducted.	0.00	0.0000	1079	0.0000	0.0000	<0.0100	0.0000	0.0000	0.0000	0.0000	0.0000	**0.0000**
AQ037-0.0-0.1	Silty Sand	20-11-2014	439588	0.0000	0.0000	0.0000	0.0000	0.0000	No FA AQ conducted.	0.00	0.0000	1011	0.0000	0.0000	<0.0100	0.0000	0.0000	0.0040	0.0040	0.0040	**0.0004**
AQ037-0.1-0.5	Gravelly Clay	20-11-2014	439588	20.00	32600.00	66.00	9.9000	**0.0304**	No FA AQ conducted.	0.00	0.0000	895	0.0000	0.0000	<0.0100	0.1699	0.1359	0.0080	0.0080	0.1439	**0.0161**
AQ038-0.0-0.1	Silty Sand	20-11-2014	439588	0.0000	0.0000	**ACM observed**	0.0000	0.0000	No FA AQ conducted.	0.00	0.0000	1120	0.0000	0.0000	<0.0100	0.0000	0.0000	0.0000	0.0000	0.0000	**0.0000**
AQ038-0.1-0.5	Gravelly Clay	20-11-2014	439588	20.00	32600.00	60.00	9.0002	**0.0276**	No FA AQ conducted.	0.00	0.0000	955	3.0012	0.4502	**0.0471**	0.0000	0.0000	0.0043	0.0043	0.0043	**0.0005**
QA01	Gravelly Clay	20-11-2014	439588	-	-	-	-	-	-	-	-	964	0.0000	0.0000	<0.0100	0.0000	0.0000	0.0458	0.0321	0.0321	**0.0033**
QC01	Gravelly Clay	20-11-2014	119744	-	-	-	-	-	-	-	-	950	0.0000	0.0000	<0.0100	0.0000	0.0000	0.0050	0.0030	0.0030	<0.0010
AQ040-0.0-0.1	Silty Sand	20-11-2014	439588	0.0000	0.0000	**ACM observed**	0.0000	0.0000	No FA AQ conducted.	0.00	0.0000	929	0.0000	0.0000	<0.0100	0.0000	0.0000	0.0000	0.0000	0.0000	**0.0000**
AQ040-0.1-0.5	Silty Clay	20-11-2014	439588	20.00	32600.00	9.0000	1.3500	**0.0041**	No FA AQ conducted.	0.00	0.0000	871	0.0000	0.0000	<0.0100	0.0138	0.0097	0.5824	0.1165	0.1262	**0.0145**
AQ041-0.0-0.1	Silty Sand	20-11-2014	439588	0.0000	0.0000	**ACM observed**	0.0000	0.0000	No FA AQ conducted.	0.00	0.0000	790	0.0000	0.0000	<0.0100	0.0000	0.0000	0.0360	0.0360	0.0360	**0.0046**
AQ041-0.1-0.5	Gravelly Clay	20-11-2014	439588	20.00	32600.00	269.17	40.3758	**0.1239**	No FA AQ conducted.	0.00	0.0000	939	4.1721	0.6258	**0.0666**	0.3768	0.3014	0.2682	0.2682	0.5696	**0.0607**

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A	Milad Noujaim/ Jessica Staehli	Matthew Bennett	Matthew Bennett	Draft for client review	30/09/2021
0	Jessica Staehli	Matthew Bennett	Matthew Bennett		3/12/2021
1	Jessica Staehli	Matthew Bennett	Matthew Bennett		5/7/2022
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